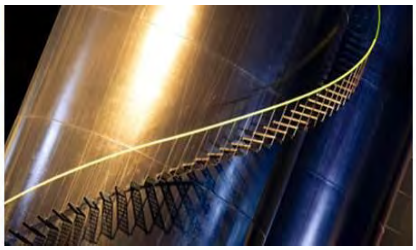

2024 ANNUAL REPORT

Whirlpool Facility
Fort Smith, Arkansas

Prepared for:
Whirlpool Corporation

Prepared by:
Ramboll Americas Engineering Solutions, Inc.

Date:
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1 Introduction

On behalf of Whirlpool Corporation (Whirlpool), Ramboll Americas Engineering Solutions, Inc (Ramboll) has prepared this 2024 Annual Report (Report) for the former Whirlpool facility (Site) located at 6400 Jenny Lind Road in Fort Smith, Arkansas (see Figure 1). This Report summarizes the maintenance and remediation efforts by Whirlpool under the oversight of the Arkansas Division of Energy and Environment, Department of Environmental Quality (ADEQ) Office of Land Resources in 2024. This report was prepared in accordance with the Revised Groundwater Monitoring Plan (RGWMP) approved by the ADEQ in September 2016; the Remedial Action Decision Document (RADD) issued by the ADEQ on December 27, 2013, and revised in November 2015 (Revised RADD); and ADEQ comment letters along with Ramboll/Whirlpool responses to previous monitoring reports. Additional efforts summarized in this report include offsite East, South, and Southwest plume investigations approved by the ADEQ in June 1, 2022.

Semi-annual and annual groundwater and indoor air monitoring events were completed in April and October 2024. Routine activities conducted during the 2024 annual event period included:

- Gauging groundwater elevations to determine hydraulic gradients at the Site;
- Collection of groundwater samples to determine Site-wide groundwater conditions;
- Collection of shallow groundwater samples to support the offsite indoor air analysis; and
- Collection of onsite indoor air and sub-slab samples from the former main Whirlpool warehouse building.

Additional activities conducted in 2024 included:

- Installation of offsite soil borings and temporary and permanent monitoring wells to the east, south, and southwest of the former main Whirlpool warehouse building;
- Installation of up- and down-gradient post-injection monitoring wells to the east of the former main Whirlpool warehouse building;
- Implementation of direct push in-situ chemical reduction (ISCR) injections in the Neck Area and East Plume; and
- Implementation of source area reduction (SAR) program which consisted of temporary recirculation of amended groundwater within the source area (i.e. northwest corner off of the former main Whirlpool warehouse building).

This report provides analytical data, results discussion, and an effectiveness assessment of on-going remedial programs based on environmental media samples collected during the 2024 annual event. The constituents of concern (COCs) evaluated during this annual event are listed in Table 1 and [trichloroethene (TCE)] is the primary COC.

In addition to annual monitoring activities, select wells were sampled for additional analytical parameters following remediation work within the East Plume, Neck Area, and Source Area.

These additional analytical tests included volatile organic compounds (VOCs), dissolved gases and a series of biogeochemical parameters. Work plans for these proposed injection programs were approved by ADEQ on March 5, 2024.

A more detailed report of the 2024 remedy implementations including, but not limited to, installation activities, field observations, and baseline sampling results will be discussed and submitted under separate cover. This report will primarily focus remedy evaluations on those programs implemented prior to 2024 as limited data has been collected since 2024 remedy programs were implemented. Future annual reports will provide more thorough evaluations of the 2024 remedy programs as additional data is collected.

2 Site Background Information

The Site was first developed in 1961 by Norge Corporation as a refrigerator, icemaker, and gas/air conditioning manufacturing facility until it was acquired by Whirlpool in 1966. Facility activities included the manufacture of side-by-side household refrigerators, trash compactors and icemakers during Whirlpool's time of operations. Manufacturing operations ceased in 2012.

The Site formerly consisted of approximately 153 acres. The developed portion of the property consists of the former manufacturing facility [approximately 1,175,000 square feet (ft^2)], a former warehouse (approximately 622,000 ft^2) and ancillary buildings north of the former manufacturing building, including the former boiler room, water treatment plant and degreaser building. Whirlpool sold the warehouse and surrounding property on the southern portion of the Site in September 2014 to Harmon Arkansas Properties, LLC (Harmon), and sold the former manufacturing building and surrounding property (approximately 92 acres) in February 2017 to Phoenix Investors, LLC (Phoenix). Three tenants (Qualserv, Stryten, and MP Warehouse, Inc) currently conduct warehousing operations within the former manufacturing facility. One portion of the building, formerly leased by Mars Petcare, was vacated in July 2024 and is currently unoccupied. After taking control of the property Phoenix demolished ancillary buildings, added shipping docks for warehouse operations and improved asphalt and concrete pavement at locations surrounding the former manufacturing building.

Surrounding property use consists of residential areas located to the north of the property beyond Ingersoll Avenue, and commercial industrial properties located to the south, east and west. Undeveloped property (used for recreational purposes prior to the expansion of Ingersoll Avenue to the east) is also located to the east. The city's primary water source is the Frog Bayou Watershed. The water is stored in Lake Fort Smith; therefore, groundwater is not used as a potable water source for the city. Properties immediately north of the Site are subject to water use restrictions.

The combination of various investigation and monitoring activities and first-hand accounts from former workers have identified the primary source of TCE impacts at the Site are attributable to former degreasing operations performed in the degreaser building formerly located near the northwest corner of the existing building (Figure 2). Incidental releases of TCE have impacted a former linear drainage feature proximate to the former degreaser building and occurred via: (1) incidental drips onto the degreaser building floor from parts that were being washed with TCE, and (2) rinsing or cleaning of the degreaser building floor for general housekeeping purposes and the subsequent discharge of mop water through the overhead doors. These incidental releases occurred approximately 30-50 years ago.

Initial remediation activities were performed by Whirlpool in close consultation with and under the oversight of ADEQ. These activities included the imposition of a deed restriction on the Whirlpool property; 2014 and 2015 in-situ chemical oxidation (ISCO) injections in Areas 1, 2, and 3 (these areas are generally located at the exterior northwest corner of the existing building and extending north to the north side of Ingersoll Avenue) as well as in the neck area (area generally located east of the electric substation) to quickly reduce TCE concentrations in

groundwater; and quarterly monitoring of groundwater for volatile organic compounds (VOCs) and natural attenuation parameters.

Subsequently, a series of investigation and remedial actions have been taken during years 2015 to 2020 that were generally aimed at refining the nature and extent of contamination and mitigating further offsite migration of Site COCs. Historical annual and semi-annual groundwater monitoring events and remedial efforts are summarized in the Five Year Technical Review Report (Ramboll 2022a). Indoor air and sub-slab vapor monitoring began in 2016, the same year that ADEQ approved the RGWMP, and has since continued as part of semi-annual and annual monitoring events.

A Human Health Risk Assessment (HHRA) completed in January 2016 concluded that there are no unacceptable exposures for onsite commercial workers and there are no unacceptable exposures to offsite residents, routine workers, or utility maintenance workers. Semi-annual soil vapor, indoor air, and groundwater monitoring conducted since 2016 continues to demonstrate there are no unacceptable onsite and offsite exposure risks.

3 Annual Monitoring Activities

The 2024 annual monitoring event was performed during the week of October 7, 2024. Annual groundwater monitoring activities included physical inspection of each well, collection of water level measurements, collection of groundwater samples for analysis of VOCs via USEPA Method 8260 in accordance with the RGWMP for all wells monitored, and geochemical and monitored natural attenuation (MNA) parameters for select wells. The 2013 RADD listed the COCs, RADD remedial action levels (RALs) (Table 1), and monitoring wells to be sampled during each groundwater monitoring event organized by plume (Table 2). Figures 3a and 3b show the locations of each well sampled. TCE is the primary COC at the Site. The COCs and additional geochemical parameters were analyzed to assess previous and recent remediation activities, as well as natural degradation of Site-related chlorinated compounds in groundwater to continue to assess the effectiveness of MNA as the remedy for the groundwater impacts at the Site.

The 2024 annual air monitoring event was performed during the week of October 7, 2024. Annual air monitoring activities included onsite and offsite vapor intrusion analyses consisting of the collection of sub-slab, ambient air, and indoor air onsite and the collection of shallow groundwater samples from vapor points and shallow wells offsite.

3.1 Well Inspection

On October 7, 2024, monitoring wells included in the water level gauging network were visually inspected. The results of this inspection event are included in Table 3. In summary, 21 wells were observed to have minor damage (e.g., broken or missing bolts) that require repair. Prior to the next sampling event, outstanding well issues will be addressed; however, it is expected that none of the issues identified will affect the quality of water samples collected from these identified monitoring wells.

3.2 Static Water Level Measurements

Static water levels were measured in a total of 142 monitoring wells to provide a current potentiometric surface to evaluate groundwater gradients and flow directions. During the well inspection on the morning of October 7, 2024, monitoring wells were opened to allow water levels to equilibrate to atmospheric conditions. After allowing time for atmospheric equilibration of groundwater levels, static water level measurements were collected using electronic water level meters. Water levels were measured to the nearest 0.01 foot with an accuracy of 0.02 feet, per the manufacturer's specification. The water level meter probe and tape (i.e., the only non-dedicated sampling equipment) were decontaminated prior to use at each well by spraying and scrubbing the probe and tape with a phosphate free detergent (e.g., Alconox) mixed with distilled water, and then rinsing the probe and tape with distilled water prior to being wiped dry.

Static water level measurements are presented in Table 4 along with the water level measurements recorded during the April 2024 sampling event. Figure 4 provides a potentiometric map drawn based on groundwater elevations observed on October 7, 2024. Based on this most current potentiometric map, the hydraulic gradient is generally consistent

with historical groundwater gradients with groundwater flow indicated toward the northeast, east, southeast, and southwest away from the source area (i.e., northwest exterior of the Site building).

While conducting well inspections and gauging on October 7, 2024, Ramboll staff observed a parked vehicle obstructing access to well MW-196. Ramboll made multiple attempts to return and see if the vehicle had been moved, but it remained obstructing the well for the duration of the 2024 annual event. As a result of this, MW-196 was unable to be gauged.

A linear interpolation of the hydraulic gradient within the between six groups of wells was performed to assess the varied groundwater flow directions and gradients at the Site as follows:

- South Plume:
    - MW-25R to ITMW-4: Southeast flow direction and a gradient of 0.0035 feet/foot; and
    - ITMW-5 to TMW-36: Southerly flow direction and a gradient of 0.0004 feet/foot.
- East Plume: MW-87 to MW-184 with a northeast flow direction and a gradient of 0.008 feet/foot;
- North Plume:
    - MW-58R to TMW-10: Northeast flow direction and a gradient of 0.013 feet/foot; and
    - MW-56R to MW-194: Easterly flow direction and a gradient of 0.004 feet/foot.

Although the gradient remains relatively flat within the former Whirlpool property boundary (i.e., 0.002 feet/foot), the gradient steepens somewhat towards the property boundaries southwest of the Site building and northeast near Jenny Lind Road and Brazil Avenue. The southern gradient from just south of the building to the property boundary is very flat.

Groundwater elevations from shallow groundwater wells (MW-174 through MW-177) located along the north side of Jacobs Avenue and MW-178 (located immediately south of Ingersoll Avenue) were used to evaluate shallow horizontal gradient. Static water elevations along Jacobs Avenue decrease from west to east; from a high of 466.65 feet at MW-177 to a low of 458.97 feet at MW-174. The calculated shallow groundwater gradient from west to east based on these two wells is 0.0093 feet/foot. Static water elevations in the deeper basal transmissive zone (BTZ) wells also generally decrease from west (MW-70, 463.13 feet) to east (MW-63R, 457.01 feet) with a resulting gradient of 0.0073 feet/foot. The highest shallow groundwater elevations were measured in the shallow well MW-179 (470.6 feet). These results suggest that the shallow groundwater horizontal flow gradient generally mimics the deeper groundwater flow gradient to the east/northeast based on the number and location of shallow groundwater monitoring wells available.

Groundwater elevations from shallow groundwater wells MW-174 through MW-178 were also compared to groundwater elevations from nearby deeper monitoring wells to evaluate vertical gradient. MW-175 is located approximately at the midpoint between deeper groundwater

monitoring wells MW-46R and MW-56R, allowing the comparison of groundwater elevations at MW-175 to the average of the groundwater elevations at MW-46R and MW-56R. The vertical gradients are summarized in Table 5 and are shown on Figure 5. Based on this evaluation, observations based on the October 2024 groundwater elevations are as follows:

- Downward vertical gradient (-0.43 feet/foot) at the most up-gradient (i.e., southwestern) well grouping MW-178/MW-83;
- Downward gradient (-0.34 feet/foot) at MW-177/MW-70;
- Flat gradient (0.01 feet/foot) at MW-176/MW-46R;
- Downward gradient (-0.15 feet/foot) at MW-175/MW-46R and MW-56R; and
- Downward gradient (-0.36 feet/foot) at the eastern most well pairing, MW-174/MW-63R.

Vertical gradients were generally consistent with historical gradients.

3.3 Groundwater Sampling

Following static water level measurement activities, groundwater sampling was performed in accordance with the RGWMP, as detailed in the following subsections. Sampling results and parameter readings collected during sampling were used for the assessment of the nature and extent of groundwater impacts and effectiveness of on-going remediation programs.

3.3.1 Methodology

Low flow groundwater sampling was performed via peristaltic pumps and dedicated polyethylene tubing. The tubing was placed at a depth within the well at the approximate midpoint of the well screen. The wells were then purged via USEPA low stress (low flow) purging procedures (USEPA 1996), at a rate generally between 0.1 and 0.3 liters (L) per minute to minimize the amount of drawdown in the well and to reduce the likelihood of elevated turbidity. Flow rates and drawdown were checked continuously during purging. Purge water was then placed into a temporary container until transferred to the onsite water holding tank prior to proper offsite disposal.

Groundwater monitoring was performed for shallow monitoring wells in the North Plume (MW-175, MW-176, MW-178 and MW-179). These wells are screened to monitor shallow perched water, and this data is used to assist in evaluating the potential for vapor intrusion from groundwater. Due to slow recovery rates, low-flow sampling techniques were not used at the shallow wells. If excessive drawdown occurred, these wells were purged dry once and then allowed to recover prior to sample collection. The data from these shallow wells is presented in Section 6 of this report.

Water quality parameters were measured via a water quality probe and flow-through cell. Instruments were calibrated daily prior to the start of sampling and all instruments were calibrated at a minimum of once per day. Calibration logs are included as Appendix A. Readings were recorded approximately every five minutes until water quality parameters stabilized.

Aquifer stabilization was considered obtained when three consecutive rounds of parameter readings met the following criteria.

- Temperature: +/- 1°C;
- Specific conductivity: +/- 3%;
- Dissolved oxygen (DO): +/- 10% for values greater than 0.2 milligrams per liter (mg/L) or less than 0.2 mg/L;
- pH: Within +/- 0.1 standard units;
- Oxidation reduction potential (ORP): Within +/- 10 millivolts (mV); and
- Turbidity: +/- 10% for values greater than 10 Nephelometric Turbidity Units (NTU) or less than 10 NTU.

Table 6 presents a summary of results for measured field parameters for the 2024 annual event.

Groundwater samples were obtained by directly filling laboratory-provided sampling bottles from the peristaltic pump discharge. The VOC samples were collected in three 40 milliliter (mL) glass vials that contained hydrochloric acid preservative per standard procedures. Samples for assessing quality assurance/quality control (QA/QC) metrics were collected by alternately filling water sample and QA/QC sample bottles for each parameter. VOC sample bottles for both the water sample and the QA/QC sample were completely filled, purged of headspace, and sealed. Hach Test Kits (all verified with valid expiration dates) were used to measure ferrous iron for select wells in the field.

Dissolved hydrogen has historically been included in our annual groundwater sampling program to assist in our assessment of monitored natural attenuation (MNA). As communicated via email to ADEQ on October 3, 2025, dissolved hydrogen analysis was not collected during this annual event. The laboratory used for this testing (Pace Analytical) informed Ramboll that they no longer run analysis for dissolved hydrogen; however, this was not communicated to Ramboll until the week before the annual groundwater sampling event when Pace Analytical was approached with a bottle order for the sampling event. Ramboll staff were not able to identify an alternate laboratory on short notice capable of meeting project data objectives.

Sample containers were labelled and packed on ice in insulated coolers before being shipped under chain-of-custody via FedEx to Eurofins Environmental Testing (Eurofins) in Savannah, Georgia (for VOC, MNA and Post-Remediation parameters) and via FedEx to Microbial Insights in Knoxville, Tennessee (microbial parameters). Chain-of-custody procedures were followed from the point of sample collection through completion of analysis. The laboratories used infrared thermometers to take sample temperatures upon sample receipt in accordance with the USEPA Manual for the Certification of Laboratories Analyzing Drinking Water, Fifth Edition.

On October 15, 2024, Ramboll was notified by Eurofins that a refrigerator malfunction led to VOC sample vials for select monitoring wells freezing, which resulted in a number of vials breaking under the pressure of sample expansion during the freezing process. Monitoring wells that had all vials broken and required resampling included MW-55R, TMW-26, MW-194, TMW-

23, IW-78 (DUP-06), MW-204, MW-46R, and TMW-16. On November 19 and 20, Ramboll resampled these wells.

3.3.2 Monitoring Well Network

The RADD detailed the initial groundwater monitoring well network for assessment of contaminants within the BTZ. Since the implementation of the RADD a number of monitoring wells from the original monitoring network have been abandoned (e.g., due to city road or Site improvements) or reinstalled. Additional wells have been added to the sampling network over time as a result of continued Site investigation activities. The groundwater monitoring network identified in the RGWMP is presented in Table 2.

In addition to the wells identified in the RADD and RGWMP, Whirlpool has agreed to sample additional wells as part of the BTZ monitoring program. The additional wells sampled during the 2024 annual sampling event are identified in the table below. Figures 3a and 3b present Site maps showing the locations of all wells sampled. During this annual groundwater sampling event a total of 110 monitoring wells (including 13 wells installed in 2024) screened within the BTZ were sampled. This included 32 wells denoted as North Plume wells, 23 wells as East Plume wells, and 55 wells as South Plume wells.

Plume Area	Additional Wells Sampled by Whirlpool			
North Plume	TMW-12	TMW-14	TMW-20	TMW-21
	TMW-22R	TMW-23	TMW-24	TMW-29
	TMW-35*			
East Plume	MW-200	MW-202	MW-205	MW-210*
	MW-211*	MW-212*	MW-214	MW-215
	MW-216	MW-217	MW-218	MW-219
	TMW-34			
South Plume	ITMW-6	ITMW-16	MW-92	MW-172
	MW-197	MW-198	MW-199	MW-201
	MW-203	MW-204	MW-206	MW-207*
	MW-208*	MW-209*	MW-213*	RW-1
	TMW-16	TMW-19	TMW-25	TMW-26
	TMW-27	TMW-30	TMW-32	TMW-36
	TMW-36B			

* Denotes a plume boundary well

In addition to the BTZ monitoring program, three shallow wells (MW-175, MW-176, and MW-178) and four vapor points (VP-7, VP-8, VP-12, and VP-14) screened above the BTZ were selected for groundwater sampling to support vapor intrusion analysis.

As part of an offsite plume investigation, a series of new monitoring wells were installed between June and September 2024. These wells were sampled to better understand TCE

concentrations in offsite areas downgradient from the former Whirlpool facility. Three wells were installed in the East Plume (MW-210, MW-211, MW-212) and four in the South Plume area (MW-207, MW-208, MW-209, and MW-213).

Between May and October 2024, a series of remedial actions were performed in the Neck Area, Source Area and East Plume following work plans approved by ADEQ on March 5, 2024. As part of post-remediation monitoring, a series of historical (ITMW-16, MW-172, and MW-92) and newly installed monitoring wells (MW-214 through MW-219) were sampled for the purpose of monitoring effectiveness of remedial actions over time. Analytical results from these wells are provided within this report, however discussion regarding effectiveness of the 2024 remedy actions will be included in future reports until additional post-remedy analytical data can be collected. The locations of newly installed wells are shown in Figure 3b.

3.3.3 Analytical Program

Site COCs to be monitored in groundwater are defined within the RGWMP. COCs were analyzed to assess prior (i.e., pre-2024) remediation activities in addition to the effectiveness of MNA as the remedy for the groundwater impacts at the Site. Groundwater monitoring activities included collection of groundwater samples for analysis of VOCs via USEPA Method 8260 in accordance with the RGWMP.

Additional parameters were also sampled and analyzed from select monitoring wells to support on-going remedial program effectiveness evaluation. This water analysis included methane (CH4), ethane, ethene, ferric iron, sulfate (Method 300.0), sulfide (Method SM 4500-S-2 D), nitrate (Method 300.0), acetylene, total organic carbon (TOC) (Method SM5310X), BAV1 vinyl chloride (VC) reductase, Dehalocaccoides (Dhc), tceA Reductase, and VC reductase. All water samples collected from monitoring wells were analyzed for VOCs. Water sampled from monitoring wells MW-24, MW-25R, MW-27, MW-50R, MW-59R, MW-61R, MW-83, MW-84, MW-87, MW-89, MW-91, MW-92, MW-95, MW-99, MW-172, MW-185, MW-186, MW-194, MW-198, IW-73, ITMW-9, ITMW-19, TMW-10, TMW-11, TMW-16, TMW-19, TMW-21, TMW-22R, TMW-25, TMW-26, TMW-32, TMW-34, TMW-36, TMW-36B and RW-69 were analyzed for additional parameters.

The natural attenuation assessment (MNA assessment) has been used to evaluate predominant electron acceptors, the variability of these electron acceptors, major nutrients, general groundwater quality, key microbial population and enzyme activities, and dissolved gasses as indicated in the 2016 RGWMP. This assessment included evaluation of chemical, geochemical, and microbial lines of evidence.

In-situ chemical reduction (ISCR) treatment wells are those wells located near ISCR treatment zones and used to assess the effectiveness of ISCR to reduce TCE and breakdown constituents in each of the treatment zones. The ISCR treatment wells are analyzed to include VOCs, MEEA, iron (total and ferric), sulfate, nitrate, TOC, dissolved organic carbon, chloride (Method 300.0), and volatile fatty acids (VFAs) (AM23G).

3.3.4 Groundwater Data Quality Assessment

A total of 110 groundwater samples were collected as part of the BTZ groundwater sampling program along with QA/QC samples were collected during the 2024 annual event. QA/QC samples included 11 field duplicate samples, six matrix spike/matrix spike duplicate (MS/MSD) samples, and seven equipment blanks. Duplicate samples were taken at a frequency of one duplicate sample per 10 groundwater monitoring samples. Duplicate samples were collected from ITMW-19, ITMW-20, IW-78, MW-24, MW-96, MW-182, MW-184, MW-195, TMW-12, TMW-30, and TMW-35. An additional 7 groundwater samples were collected from shallow wells and vapor points to support the vapor intrusion analysis.

As monitoring wells contain dedicated or new tubing, the only equipment transferred and used from well to well is the water level meter used to monitor water levels during purging and stabilization prior to sampling and tube weights. Equipment rinsate blanks were collected after water level meters used during the monitoring event were decontaminated to evaluate field decontamination procedures. Equipment rinsate blanks were collected by pouring ASTM Type II deionized water over the decontaminated water level meter probe and tape into the appropriate sample containers. The rinsate blanks were collected after decontamination procedures at ITMW-20 (EB-01-202410), MW-206 (EB-02-202410), MW-63R (EB-03-202410), MW-198 (EB-04-202410), MW-38 (EB-05-202410), MW-215 (EB-06-202410) and MW-196 (EB-07-202411). The preservation and analysis of the equipment rinsate blanks were identical to those of the associated environmental samples.

VOC analytical data from all wells were validated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Review (August 2014). The laboratory analytical reports for this annual sampling event are provided in Appendix B. A summary of analytical results (i.e., detected compounds) for this annual event are presented in Table 7. These tables include data qualifiers that have been assigned from the laboratory or from Ramboll's data validation. Appendix C provides Ramboll's data validation report for the October 2024 through December 2024 analytical results.

Field data was collected and validated according to the RADD, associated standard operating procedures (SOPs), and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Review (August 2014). The field data and documentation were evaluated against the following criteria, as appropriate.

- Samples were collected at the specified locations identified in the RGWMP and approved by the ADEQ in September 2016;
- Field instrumentation calibration and QA/QC checks on equipment were conducted on a daily basis, prior to field work; and
- Sample documentation protocol and chain-of-custody protocols were followed per Ramboll field procedures.

All VOC (SW846 5030B/8260B) water analytical results were validated by a Ramboll Project Chemist (see Appendix C for the Data Validation Report). During the data validation process,

data validation qualifiers were assigned to the results per the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (OSWER 9355.0-136, EPA-540-R-2017-002, January 2017) and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review (OSWER 9355.0-135, EPA-540-R-2017-001, January 2017) as necessary to indicate potential limitation on use of the data. In addition, data qualifier codes were added to the results to indicate the reason(s) for qualification and the associated bias direction. Appropriate data qualifiers have been added to analytical data provided in Table 7. Forty-three results for ferrous iron and two results for nitrite were “J” qualified for detected results and rejected “R” for non-detect results for analyses that were performed outside 2x the method holding time. See Appendix C for further information regarding the rejected data.

3.4 Air Sampling

Ramboll performed an indoor air and sub-slab soil vapor monitoring events for the Site on October 8-9, 2024. The purpose of air sampling is to evaluate potential vapor intrusion to onsite workers from the TCE impacts in groundwater beneath the former Whirlpool building. Previous monitoring events are discussed in the 2024 Semi-Annual Monitoring Report (Ramboll 2024). The October 2024 samples were collected and analyzed to evaluate current conditions which reflect renovations to the building completed by Phoenix.

3.4.1 Methodology

A walk-through of the building interior was performed by Ramboll to identify any materials that may impact air quality (i.e., solvent storage, fuel storage, maintenance chemicals, etc.) during sampling and to identify building features that might serve as preferential pathways for vapor intrusion (e.g., floor joints or cracks, below grade pits, etc.). While conducting a site walkthrough, Ramboll staff observed air blasting activities in the southern portion of the building formerly occupied by Mars Petcare as the space was being prepared for a potential future tenant. As a result, indoor air sampling location Z1-1 was not sampled due to the air blasting activities. Additional potentially significant preferential pathways were observed in the eastern portion of the building were construction joints in the concrete slab at various locations associated with slab placements over previous pits and truck bay dock leveler installations.

Indoor air sampling was conducted on October 08, 2024. Sampling was performed between 07:38 AM and 5:31 PM CST (i.e., local Site time). The outside temperature ranged from approximately 57°F to 76°F; relative humidity ranged from 97% to 29%; and wind was from the north, northeast with a speed between 0 miles per hour (mph) to 13 mph based on climate data from the National Weather Service at the Fort Smith Regional Airport Station located approximately 2 miles northeast of the Site (www.weather.gov, accessed November 5, 2024). During sample collection, the building ventilation system was operating, interior overhead doors were open, and exterior overhead doors and doorways were closed with exception to truck bays where loading and unloading activities were being conducted.

Indoor air samples were collected at breathing height (approximately 70 inches above the ground) over an 8 hour period. Samples were collected using certified clean stainless-steel

Summa canisters provided by an accredited analytical laboratory using flow control regulators pre-set by the laboratory to collect an 8-hour time integrated sample. The canister ID, regulator ID, and initial canister pressure were logged at the beginning of sampling at each location. Initial canister negative pressures typically range from -22 inches mercury (in. Hg) to -30 in. Hg. upon receipt from the laboratory. Indoor and outdoor air samples were collected until the pressure remaining in the canister read between -5 and -7.5 in. Hg. After sample collection was complete, the regulators were closed on the respective canisters.

Sub-slab vapor sampling was conducted on October 9, 2024. Sampling was performed between approximately 7:15 AM and 5:15 PM CST (local Site time). Samples consist of approximate 15 minute samples collected at various times throughout the day when access was granted by the tenant. During the sub-slab vapor sampling event, the outside temperature ranged from 51°F to 84°F. On October 18, 2024, the wind was from the north, northeast, with a speed between 2 to 8 mph. There was no precipitation onsite or in the surrounding area. These times are based upon climate data from the National Weather Service at the Fort Smith Airport (www.weather.gov, accessed November 5, 2024).

Sub-slab vapor samples were collected after at least two liters of air were purged and tested for CH4, carbon dioxide (CO_2), and oxygen (O_2) content using a GEM 2000 multi-gas probe. Leak testing was conducted during purging and sampling. A shroud was placed over the sub-slab sample port, sampling train, and tubing connections to and from the Summa canister and helium was injected until the air in the shroud measured >15% helium using a helium detector. The helium detector was then used to measure the amount of helium in the sampling line. All helium measurements from the leak test were non-detect.

After the sampling train was determined to be adequately sealed, soil vapor samples were collected using certified clean stainless-steel Summa canisters provided by an accredited analytical laboratory using flow control regulators pre-set by the laboratory to collect an approximate 15-minute time integrated sample. The canister ID, regulator ID, and initial canister pressure were logged at the beginning of sampling at each location. Soil vapor samples were collected until the pressure remaining in the canister read between -4 and -5 in. Hg.

3.4.2 Air Sampling Network

Ramboll collected samples at 10 of the typical 11 indoor locations within Zones 1-6 as presented on Figure 6. Sampling points were chosen to assess indoor air quality throughout the building with an emphasis on locations above areas exhibiting the highest TCE concentrations in the groundwater plume underneath the building. Location Z1-1 was not sampled due to the air blasting activities mentioned previously. One duplicate indoor air sample was collected for the sampling event, as well as an outdoor, background air sample on October 8 and 9. The background air samples were collected from the parking area at the northeast property boundary in the vicinity of MW-89 (upwind of the building). These background air samples were collected at the same time as the indoor air samples and provide an evaluation of potential contributions from sources other than vapor intrusion.

3.4.3 Analytical Program

The canisters were submitted to Eurofins Environmental Testing for analysis of TCE and associated breakdown products using USEPA Method TO-15 SIM.

3.4.4 Air Quality Data Assessment

An indoor air duplicate sample was collected during the sampling event. The indoor air and sub-slab duplicate samples were collected at location Z6-2 (Figure 6).

All VOC (TO-15) analytical results were validated by a Ramboll Project Chemist (see Appendix C for the Data Validation Report). During the data validation process, data validation qualifiers were assigned to the results per USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (OSWER 9355.0-136, EPA-540-R-2017-002, January 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review (OSWER 9355.0-135, EPA-540-R-2017-001, January 2017) as necessary to indicate potential limitation on use of the data. In addition, data qualifier codes were added to the results to indicate the reason(s) for qualification and the associated bias direction. Appropriate data qualifiers have been added to analytical data provided in Tables 9 and 10. The overall data quality assessment indicated that the data are usable for the intended purpose, with no data rejected.

3.5 Offsite Investigations

Ramboll completed investigations at three offsite properties. These investigations included collection of soil borings for lithologic description, collection of grab groundwater samples for analytical testing, and installation of permanent monitoring wells for use as plume boundary wells. Investigation activities were completed between June and December 2024 after securing property access agreements with each property owner/manager. A brief summary of these offsite investigations are as follows:

- East Area: An offsite investigation was completed to the east of the site (east of Jenny Lind Road and south of Ingersoll Avenue). This investigation was performed based on elevated TCE concentrations previously identified in water collected from MW-202 and MW-185. This investigation included installation of soil borings and temporary monitoring wells at six locations. Each boring was drilled to shale bedrock and temporary wells screened across the BTZ formation. Collection and analysis of grab groundwater samples assisted in the evaluation for selection of permanent downgradient plume boundary wells. Based on field observations and analytical data of grab analytical data, three monitoring wells (MW-210, MW-211 and MW-212) were installed in June 2024 (Figure 7). The work was performed in accordance with the East Plume Investigation Work Plan approved by ADEQ on July 5, 2022.
- South Area: An offsite investigation was completed to south [Harmon Arkansas Properties, LLC (Harmon) property]. This investigation was performed based on elevated TCE concentrations previously identified in water collected from MW-203. This investigation included installation of soil borings and temporary monitoring wells at four

locations. Each boring was drilled to shale bedrock and temporary wells screened across the BTZ formation. Collection and analysis of grab groundwater samples assisted in the evaluation for selection of permanent downgradient plume boundary wells. Based on field observations and analytical data of grab analytical data, three monitoring wells (MW-208, MW-209, and MW-213) were installed in June and September 2024 (Figure 8). The work was performed in accordance with the South Plume Investigation Work Plan approved by ADEQ on July 5, 2022.

- Southwest Area: An offsite investigation was completed to the southwest (McPherson Oil and Geren Road right of way). This investigation was performed to further delineate the plume boundary downgradient of MW-199. This investigation included installation of soil borings and temporary monitoring wells at six locations. Each boring was drilled to shale bedrock and temporary wells screened across the BTZ formation. Collection and analysis of grab groundwater samples assisted in the evaluation for selection of permanent downgradient plume boundary wells. Based on field observations, analytical data of grab analytical data, and health and safety considerations (i.e., numerous utilities within investigation area), one monitoring well (MW-207) was installed in June 2024 (Figure 9). The work was performed in accordance with the Southwest Plume Investigation Work Plan approved by ADEQ on July 5, 2022.

3.5.1 Methodology

Prior to initiating any drilling activities, both Arkansas One-Call Utility Locating Services and a private utility locator were contacted to identify underground utilities and other potential obstructions in the work areas.

Soil borings were continuously drilled and lithology was logged by a Ramboll Geologist to determine the geologic intervals, water bearing zones, and depth to shale bedrock. A photoionization detector (PID) was used to screen soil cores for impacts of VOCs. Upon completion of soil boring installation, temporary wells were installed using 1 inch Schedule 40 polyvinyl chloride (PVC) 0.010 inch slotted screen and riser. After installation, temporary wells were allowed to equilibrate for 24 hours prior to purging and sampling. Collected groundwater samples were shipped for overnight delivery to Pace Analytical Services in Lenexa, Kansas and analyzed for VOCs by USEPA method 8260. After groundwater sampling was completed, all temporary wells and soil borings were properly abandoned using bentonite chips and pellets. All soil boring and temporary well locations were surveyed by an Arkansas licensed surveyor.

Permanent monitoring well installation locations were determined after the review of the existing conceptual site model along with new lithology descriptions and grab groundwater analytical samples from temporary well locations described in the previous paragraph. New monitoring wells were installed via direct push drilling using hollow stem augers. Well construction consisted of 2 inch diameter Schedule 40 PVC riser with a 5 to 10 foot 0.010 inch slotted screen, sand filter pack, hydrated bentonite seal, and flush mount surface completion. All permanent monitoring well locations were surveyed by an Arkansas licensed Surveyor.

Following installation, each monitoring well was developed to re-establish natural hydraulic flow conditions within the formation. Newly installed monitoring wells were developed using a submersible pump. Well development was performed until the column of water in the well was free of visible turbidity and the pH and specific conductivity were stable. If the aforementioned criteria could not be met, well development was considered complete after 30 well volumes of water were removed. Following well development, newly installed monitoring wells were sampled and shipped for overnight delivery to Eurofins in Savannah, Georgia and analyzed for VOCs by USEPA Method 8260. Monitoring wells were sampled between October and December 2024. Soil cuttings generated from soil boring and well installation activities were containerized in steel 55 gallon drums and staged on the former Whirlpool manufacturing facility property. Purge water generated from groundwater development activities was also containerized and stored on the former Whirlpool property. Investigation derived waste (IDW) from the investigation activities was disposed of as non-hazardous waste by Environmental Remediation Specialists (ERS) and transported to American Environmental Landfill, Inc. between August 2024 and January 2025

4 Groundwater Results and Discussion

Groundwater analytical results for detected compounds from the October 2024 annual groundwater sampling event are summarized in Table 7 and have been compared to ADEQ RAL's. TCE analytical results and isoconcentration contours based on the October 2024 groundwater analytical data are presented on Figure 10. Appendix D provides a summary of current and historical groundwater concentrations for Site COCs. Appendix E provides a graphical summary of contaminant concentrations for representative wells upgradient, within, and downgradient of each plume treatment area.

Table 6 presents the groundwater field parameters for the annual event's MNA assessment. A summary of this field data is outlined below.

- Groundwater was generally considered to be anaerobic as water collected from 98 of 110 wells sampled were found to have DO concentrations less than 1 mg/L.
- ORP of groundwater ranged from -588.7 mV in TMW-30 (located south and down-gradient of the south side of the building) to a high of +362.2 mV in MW-204 (located south and down-gradient of the south side of the building). ORP readings were generally negative (<0) in areas impacted by ISCR treatments and positive (>0) in non-treatment areas. pH of groundwater ranged from 4.23 standard units (SU) in MW-39R to 9.66 SU in MW-98. In general, pH levels are in the range of 5-7.
- Temperature of groundwater ranged from 17.6°C to 31.3°C with many temperature measurements around 15°C to 21°C, which is a range that would support microbial growth in groundwater.

The chemical and geochemical data from the 2024 annual event did not vary greatly to the 2023 annual event (i.e., generally low DO [< 1 mg/L], ORP < 300 mV [negative ORP in ISCR areas], and slightly acidic to neutral pH).

To evaluate the stability of the plumes, a trend analysis was performed using the Mann-Kendall nonparametric test on onsite monitoring wells. The Mann-Kendall test is widely used for performing these tests and is described in detail in USEPA (2009) guidance for statistical tests in groundwater. The Mann-Kendall test is a non-parametric hypothesis test which, unlike a parametric t-test, makes no assumptions about the distribution of the data being evaluated (e.g., normality). The data values are evaluated as an ordered time series where each data value is compared to all subsequent data values.

A Mann-Kendall trend test was conducted using the datasets described in Section 3.3. The computation was performed using the USEPA's ProUCL software. Results from the Mann-Kendall trend testing are provided within Table 8. The possible outcomes of the trend analysis are as follows[1]:

[1] Historical reports prior to the 2022 Annual Report used the 3TMO software package which performs an identical computation but had the potential to return three different classes of test results in addition to these listed here.

- No Trend. p-value greater than 0.05;
- Increasing. Test statistic S is positive and p-value <0.05; and
- Decreasing. Test statistic S is negative and p-value <0.05.

There are a few key notes regarding data preparation for the trend analysis:

- Only groundwater data from 2009 to the present was included in the trend evaluation, unless otherwise noted in plume specific discussions;
- For non-detects, one half of the sample quantitation limit was used to represent a numerical concentration; and
- Only wells with at least four detections of a tested analyte and where at least 10% of a contaminant data set contains detections were included in this trend evaluation.

The following subsections provide a summary and discussion of analytical results for the varies plume areas for the Site. Plume stability is also discussed for each plume area based on the Mann-Kendall analysis described above.

4.1 North Plume

The North Plume is located offsite north of Ingersoll Avenue and west of Jenny Lind Road. The North Plume is comprised of 32 monitoring wells (Table 2) that were sampled during the 2024 annual event. Six of these wells were sampled for natural attenuation parameters in accordance with the RGWMP, including MW-50R, MW-58R, TMW-10, TMW-11, IW-73, and RW-69. Additionally, six other wells were sampled for ISCR parameters in accordance with the RGWMP, including MW-61R, MW-194, TMW-10, TMW-11, TMW-21, and TMW-22R. ISCR injections in 2015 and 2018 have been performed to reduce TCE concentrations and maintain plume control at the north boundary and east boundary of the North Plume.

These are not produced directly by the ProUCL Mann-Kendall package, but the qualitative results will be discussed in the subsequent sections:

- Stable – indicates results that did not show an increasing or decreasing trend and had a low coefficient of variance.
- <Practical Quantitation Limit (PQL) - All sample results have a J qualifier (estimated result greater than the method detection limit but less than the reporting limit) or a mixture of non-detects and results with J qualifiers.
- Non-Detect (ND) - Constituent has not been detected at the well during the time period analyzed.

4.1.1 North Plume Analytical Results

The following table provides a synthesis of VOC and select biogeochemical results for the North Plume wells.

Primary Site COCs*	No. Detects / No. Wells Sampled	RAL: No. Wells Exceed RAL	Maximum Detection
TCE	24 / 32	5 µg/L: 16	480 µg/L @ MW-56R
cDCE	15 / 32	70 µg/L: 0	37.0 µg/L @ TMW-22R
VC	3 / 32	2 µg/L: 3	19.0 µg/L @ TMW-22R

Select* Biogeochemical Parameters	Results Range
TOC	1,200 µg/L to 3,500 µg/L
Ferrous Iron, Field Measured	Non-detect to 3,500 µg/L
Sulfate	Non-detect µg/L to 20,000 µg/L
Acetylene	Non-detect in all wells
Ethane	Non-detect to 3.2 µg/L
Ethene	Non-detect to 18.0 µg/L
Methane	Non-detect µg/L to 14,000 µg/L
Dhc	0.16 to 11 cells/mL

Note:
* Table 7 provides results for all analytes
cells/mL: Cells per milliliter
nM: Nanomolar
µg/L: Microgram per liter

4.1.2 Discussion of Results

VOC Discussion

The North Plume remains well defined and TCE results are generally consistent with previous events. Plume boundary wells MW-39R, MW-40R, MW-50R, MW-60R, MW-61R, MW-62R, MW-68, MW-195 and MW-196 remain below TCE reporting criteria and RAL. Water collected from three plume boundary wells (MW-55R, MW-63R and MW-194) were reported to have a TCE concentrations above the RAL of 5 µg/L ranging from 6.7 µg/L at MW-194 to 23.0 µg/L at MW-55R. Nearby plume boundary wells (TMW-35, MW-50R, MW-68, and MW-195) provide lines of evidence (i.e., TCE non detect, or TCE detection < RAL) that assist to maintain a well-defined North Plume.

During the 2024 annual event, the highest concentration of TCE detected in groundwater samples from the North Plume wells was 480 µg/L collected from plume interior well MW-56R. This is a decrease from this well's maximum concentration of 902 µg/L in November 2018. TCE

concentrations are lower up-gradient from MW-56R at MW-46R (120 µg/L). Some concentration variations are expected to occur within plume interior monitoring wells and monitoring will continue. There are sufficient down-gradient monitoring locations to evaluate plume conditions leading into and from the down-gradient treatment zone at the eastern extent of the North Plume (Figure 10).

Temporary monitoring wells (i.e., TMW wells) in the North Plume were previously installed to further delineate the north-eastern edge of the plume and were retained to provide on-going monitoring for the plume and ISCR treatment zones. As presented on Figure 10 and within Table 7, TCE concentrations in water from these wells provided further lines of evidence to define the North Plume boundary.

During the 2024 annual event cis-1,2-dichloroethene (cDCE), a degradation daughter product of TCE, was not detected in any North Plume well exceeding the RAL of 70 µg/L. VC, a degradation product of TCE and cDCE, was detected in water from only three monitoring wells (TMW-10, TMW-21, and TMW-22R) at concentrations greater than the RAL of 2 µg/L ranging from 3.1 µg/L at TMW-21 to 19 µg/L at TMW-22R. As shown on Figure 10, wells TMW-10, TMW-21, and TMW-22R are located within the 2018 North Plume ISCR injection areas where a treatment area has been established to reductively dechlorinate TCE impacted groundwater.

Biogeochemical and Microbiological Discussion

Microbial testing was performed on groundwater from six monitoring wells within the North Plume. Two of these wells were within the treatment zones established during the 2018 ISCR injections and four monitoring wells were from within and adjacent to the North Plume interior upgradient of the treatment area. Groundwater from within the treatment area at monitoring wells TWM-10 and TMW-11 contained Dhc concentrations 11 and 7.7 cells/mL, respectively. These low to moderate concentrations of Dhc when paired with detections of vcrA indicate that complete reductive dichlorination of TCE to ethene may still occur in the treatment zone, although further bioremediation options may need to be considered.

Groundwater from within and adjacent to the North Plume interior (i.e., upgradient of the North Plume treatment area) contained low concentration of Dhc at MW-50R (0.161 cells/mL), MW-58R (0.28 cells/mL), IW-73 (3.5 cells/mL) and RW-69 (5.8 cells/mL). Two of these locations (MW-50R and MW-58R) were non-detect for vcrA, while two wells near the upgradient edge of the North Plume (IW-73 and RW-69) contained low concentrations of vcrA and the BAV1 VC reductase. The interior of the North Plume upgradient of the 2018 treatment area contains low levels of microbial populations which suggests that reductive dechlorination of TCE is still possible, but additional lines of evidence are needed to support this conclusion. Additional discussions of terminal electron acceptors, TOC, and VFAs are discussed in Section 5.2 in support of the ISCR effectiveness evaluation.

4.1.3 North Plume Stability

In the North Plume Wells, 27 wells had Mann-Kendall trend tests performed and five wells had insufficient data to perform a trend test. Of the wells that were analyzed, the majority showed decreasing or no trend results for TCE:

- Increasing: Four wells (~15%);
- Decreasing: 14 wells (~52%); and
- No Trend: Nine wells (~33%)

There are approximately 13 monitoring wells that are within or adjacent to the leading edge of the North Plume (MW-60R, MW-61R, MW-63R, MW-194, MW-195, TMW-10, TMW-11, TMW-12, TMW-14, TMW-21, TMW-22R, TMW-23, and TMW-24). Of these monitoring wells, eight demonstrate decreasing TCE trends, four with no trend, and one with an increasing TCE trend (MW-195). The October 2024 TCE concentration for MW-195 (2.8 µg/L) was less than the contaminant RAL.

Based on Mann-Kendall analysis of wells along the leading edge of the North Plume and supported by on-going remediation through the 2018 ISCR program, this plume demonstrates stability and has not further expanded toward the northeast.

Three monitoring wells comprise the lagging edge to the North Plume (IW-77, IW-78, and MW-82). These three locations demonstrate either decreasing TCE trends or no trend. Across Ingersoll Avenue the two closest South Plume wells to the North Plume demonstrate a decreasing TCE trend at MW-83 and no trend at MW-27. These Mann-Kendall results support that prior remediation efforts at the Site have maintained a separation between the North and South Plumes, and recent ISCR injections into the Neck Area (adjacent to MW-27) are likely to maintain this separation.

4.2 East Plume

The East Plume consists of groundwater impacts along the eastern property boundary extending from the southeast dock area of the property northward to the northeast parking lot (Figure 10). The East Plume includes 23 monitoring wells (14 historical and nine new monitoring wells) that were sampled during the 2024 annual event. Two of these wells (MW-87 and MW-89) were sampled for natural attenuation parameters in accordance with the RGWMP. Additionally, three other wells were sampled for ISCR parameters in accordance with the RGWMP, including MW-91, MW-99, and TMW-34.

ISCR injections in 2019 were previously performed within the northeastern portion of the East Plume to reduce TCE concentrations and maintain plume control in this area. A limited scale (i.e., only four injection points) injection program was installed in 2018 within the southeastern portion of the East Plume down-gradient of MW-185.

A work plan was submitted to the ADEQ on June 1, 2022, and subsequently approved on July 5, 2022, for an additional investigation east of Jenny Lind Road and was completed in June

2024. New plume boundary monitoring wells MW-210, MW-211, and MW-212 were installed downgradient of known TCE groundwater contamination.

A work plan was submitted to the ADEQ on December 19, 2023, and approved on March 5, 2024 for implementation of a new ISCR treatment area that was installed across the eastern boundary of the Site building between the Site building and Jenny Lind Road. This ISCR treatment area was installed between July and October 2024. Additional monitoring wells MW-214, MW-215, MW-216, MW-217, MW-218, and MW-219 were installed to aid in evaluating long-term treatment effectiveness. Contaminant trends and remedy effectiveness from these new monitoring wells will be discussed in more detail in future reports as additional analytical data is collected.

4.2.1 East Plume Analytical Results

The following table provides a synthesis of VOC and select biogeochemical results for the East Plume wells.

Primary Site COCs	No. Detects / No. Wells Sampled	RAL: No. Wells Exceed RAL	Maximum Detection
TCE	17 / 23	5 µg/L: 13	1,300 µg/L @ MW-218
cDCE	14 / 23	70 µg/L: 3	150 µg/L @ TMW-34
VC	4 / 23	2 µg/L: 0	1.5 µg/L @ MW-91

Select* Biogeochemical Parameters	Results Range
TOC	1,100 µg/L to 18,000 µg/L
Ferrous Iron, *Field Measured*	Non-detect to 7,000 µg/L
Sulfate	Non-detect µg/L to 42,000 µg/L
Acetylene	Non-detect in all wells
Ethane	2.2 J µg/L to 5.0 µg/L
Ethene	Non-detect to 6.7 µg/L
Methane	3.2 µg/L to 13,000 µg/L
Dhc	Non-detect to 28 cells/ML

Note:
* Table 7 provides results for all analytes
cells/mL: Cells per milliliter
nM: Nanomolar
µg/L: Microgram per liter

4.2.2 Discussion of Results

VOC Discussion

The East Plume well concentrations at MW-185 and MW-205 remain generally consistent with recent events, while TMW-34 showed a significant decrease. Plume boundary wells MW-96, MW-97, MW-98, MW-183R, and MW-184 and new plume boundary wells MW-210 and MW-212 are below TCE reporting criteria and/ or RAL. New plume boundary well MW-211 was reported with a TCE concentration of 35 µg/L. Downgradient monitoring wells MW-200 and MW-202 were reported with TCE concentrations of 38 µg/L and 350 µg/L, respectively. These wells are downgradient of the East Plume ISCR treatment area installed in 2024.

During the 2024 annual event, the highest concentration of TCE detected in groundwater samples from the East Plume wells was 1,300 µg/L collected from new plume interior well MW-218 which is adjacent to and upgradient of the 2024 installed East Plume ISCR treatment area. The TCE concentration detected at MW-87, upgradient of recently installed East Plume ISCR treatment area was 280 µg/L, which is a decrease from the high of 839 µg/L in 2016. Some concentration variations are expected to occur within the plume interior monitoring wells and monitoring will continue.

During the October 2024 groundwater sampling event cDCE, a degradation daughter product of TCE, was detected in three East Plume wells exceeding the RAL of 70 µg/L (100 µg/L at MW-205, 87 µg/L at MW-219, and 150 µg/L at TMW-34). VC, a degradation product of TCE and cDCE, was not detected in water from any monitoring wells at concentrations greater than the RAL of 2 µg/L.

Additional discussions of terminal electron acceptors, TOC, and VFAs are discussed in Section 5.2 in support of the ISCR effectiveness evaluation. The East Plume ISCR treatment area installed in 2024 is anticipated to likely have a beneficial impact, i.e. reduction, over time on downgradient detections of TCE.

Biogeochemical and Microbiological Discussion

Microbial testing was performed on groundwater from three monitoring wells (MW-87, MW-89 and MW-91) within the East Plume adjacent to the northeastern treatment zone established during the 2018 ISCR injections. Groundwater from these wells contained varied concentrations of Dhc, ranging from non-detect at MW-87 to a moderate concentration at and MW-91 (28 cells/mL). Additionally, vcrA was detected in low concentrations from groundwater in well MW-91 (5 cells/mL). The East Plume, upgradient and adjacent to the 2018 southeastern treatment area, contains low levels of microbial populations which suggests that reductive dechlorination of TCE is still possible within this area, but additional lines of evidence are needed to support this conclusion. The East Plume ISCR treatment area installed in 2024, which included bioaugmentation, is anticipated to beneficially impact the microbial population during future groundwater sampling events. Additional discussions of terminal electron acceptors, TOC, and VFAs are discussed in Section 5.2 in support of the ISCR effectiveness evaluation.

4.2.3 East Plume Stability

In the East Plume Wells, 12 wells had Mann-Kendall trend tests performed as eleven wells (two historical and nine new monitoring wells) had insufficient data to perform a trend test. Of the wells that were analyzed, the majority showed increasing or decreasing results:

- Increasing – seven wells (~58%);
- Decreasing – four wells (~33%); and
- No Trend – one well (~8%).

Out of the 12 wells that had sufficient data sets to run Mann-Kendall, seven wells were found to demonstrate increasing TCE trends. Of these seven wells, only two of these are upgradient of the recently installed East Plume ISCR treatment area (i.e., MW-185 and MW-205). Two of the downgradient wells with an increasing trend were reported with TCE concentrations near to or below the ADEQ RAL of 5 µg/L (MW-99 at 5.2 µg/L and MW-184 at 2.2 µg/L). Although downgradient well MW-200, MW-202, and TMW-34 have demonstrated increasing TCE trends, the recent installation of the East Plume ISCR treatment area in 2024 is anticipated to beneficially impact downgradient TCE concentrations (i.e., reduction).

4.3 South Plume

The South Plume is comprised of groundwater impacts onsite south of Ingersoll Avenue, south of the main warehouse building and extending offsite toward the southwest (Figure 10). The South Plume includes 55 monitoring wells that were sampled during the 2024 annual event. Five wells in the South Plume were sampled for laboratory and natural attenuation parameters in accordance with the RGWMP, including ITMW-9, MW-25R, MW-197, MW-38, MW-95, and MW-198. Additionally, four wells in the South Plume were sampled for ISCR parameters in accordance with the RGWMP, including TMW-19, TMW-25, TMW-36, and TMW-36B. ISCR Injections in 2018 and 2020 were performed to reduce TCE concentrations and obtain control of the South Plume along strategic areas of the South Plume boundary.

A work plan was submitted to the ADEQ on June 1, 2022, and subsequently approved on July 5, 2022, for an additional investigation in the South Plume and was completed in June and August 2024. New plume boundary monitoring wells MW-207, MW-209, MW-213, and MW-218 were installed downgradient of known TCE groundwater contamination.

4.3.1 South Plume Analytical Results

The following table provides a synthesis of VOC and select biogeochemical results for the South Plume wells.

Primary Site COCs*	No. Detects / No. Wells Sampled	RAL: No. Wells Exceed RAL	Maximum Detection
TCE	37 / 55	5 µg/L: 29	71,000 µg/L @ RW-1
cDCE	32 / 55	70 µg/L: 10	42,000 µg/L @ RW-1
VC	7 / 55	2 µg/L: 4	410 J µg/L @ MW-198

Select* Biogeochemical Parameters	Results Range
TOC	1,100 µg/L to 1,700,000 µg/L
Ferrous Iron, *Field Measured*	Non-detect to 10,000 µg/L
Sulfate	Non-detect to 1,800,000 J^+ µg/L
Acetylene	Non-detect in all wells
Ethane	Non-detect to 11.0 µg/L
Ethene	Non-detect to 730 µg/L
Methane	Non-detect to 29,000 µg/L
Dhc	Non-detect to 2,400,000 cells/mL

Note:
* Table 7 provides results for all analytes
cells/mL: Cells per milliliter
nM: Nanomolar
µg/L: Microgram per liter

4.3.2 Discussion of Results

VOC Discussion

The South Plume remains fairly well defined with the exception of the Site building interior where there are a limited number of wells. TCE results are generally consistent with previous events. Notable observations for the South Plume area are discussed herein.

Monitoring wells ITMW-2R, ITMW-20, MW-22, MW-26, MW-28, MW-29, MW-84, MW-186, MW-192, MW-197, MW-201, MW-208, MW-209, MW-213, TMW-25, TMW-27, and TMW-36B remain below TCE reporting criteria and/or the RAL, and provide a boundary on the western, southern, and most of the northern extent of the South Plume.

During the 2024 annual event, the highest concentrations of TCE were detected in groundwater within the source area at monitoring well MW-95 and recovery well RW-1 (33,000 µg/L and 71,000 µg/L, respectively). TCE concentrations within some wells in the source area have fluctuated as a result of the 2024 SAR installation and are discussed further in section 5 of this report.

Approximately 100 feet south of the property boundary and south of the 2020 ISCR treatment area, TCE was detected in groundwater at MW-203 at 290 µg/L. However, groundwater

analyzed from monitoring well MW-201 and MW-208 (south and slightly east of MW-203) were non-detect for TCE. The 2020 ISCR treatment zone at the south property boundary was installed to address additional impacts to offsite groundwater.

Offsite to the southwest, TCE was detected in groundwater at MW-199 at 82 µg/L. This is a decrease from the well's maximum concentrations of 101 µg/L in April 2023 and 93 µg/L in October 2023. Although TCE concentrations were generally increasing from July 2020 through April 2023, TCE concentrations have been dropping since. The successful reduction of TCE from the ISCR treatments upgradient of MW-199 are potentially being observed at this well. Contaminant trends at MW-199 will continue to be monitored during future monitoring events. TCE was detected in groundwater at newly installed MW-207, and downgradient of MW-199, at a concentration of 26 µg/L. Further discussion of the investigation efforts to the Southwest will be discussed in Section 7.

During the October 2024 groundwater sampling event cDCE, a degradation daughter product of TCE, was detected in ten wells exceeding the RAL of 70 µg/L. The wells with cDCE exceeding the RAL were ITMW-9, ITMW-18, ITMW-19, MW-25R, MW-38, MW-92, MW-95, MW-172, MW-198, and RW-1. These wells are within or near to the source area.

VC, a degradation product of TCE and cDCE, was detected in water from only four monitoring wells at concentrations greater than the RAL of 2 µg/L. The wells with VC exceeding the RAL were MW-25R, MW-38, MW-198, and TMW-16. Three of these wells are located within or near the source area. TMW-16 is located downgradient from the source area to the southwest. These elevated results for cDCE and VC provide a line of evidence that reductive dechlorination is occurring within the source area and the ISCR treatment area.

Biogeochemical and Microbiological Discussion

Microbial testing was performed on groundwater from ten monitoring wells within the South Plume. Seven of these wells (MW-25R, MW-38, MW-92, MW-95, MW-172, MW-198 and ITMW-19) were within or nearby the source area, two are located north of the source area (MW-27 and MW-83), and one is located to the southwest of the source area (TMW-32). Groundwater concentrations of Dhc ranged from non-detect at MW-25R and MW-95, to high concentrations at MW-92 (96,000 cells/mL) and MW-198 (2,400,000 cells/mL). Additionally, groundwater concentrations of vcrA ranged from non-detect in three wells (MW-25R, MW-38 and MW-95) to high concentrations in MW-92 (17,000 cells/mL) and MW-198 (250,000 cells/mL). Within and around the source area, there are low- to high-levels of microbial populations, which suggests that reductive dechlorination of TCE is occurring following recent remedial efforts in July and August 2024 within this area. Ongoing remedial efforts, along with additional discussion of terminal electron acceptors, TOC, and VFAs are discussed in section 5.2 in support of the ISCR effectiveness evaluation.

4.3.3 South Plume Stability

In the South Plume Wells, 44 wells had Mann-Kendall trend tests performed as twelve wells had insufficient data to perform a trend test. Of the wells that were analyzed, the majority showed a mix increasing or decreasing results for TCE:

- Increasing – 15 wells (~34%);
- Decreasing – 23 wells (~52%);
- No Trend – 6 wells (~14%); and

Of the twelve wells with a TCE concentrations greater than 100 µg/L in or near to the source area seven wells (ITMW-18, ITMW-19, ITMW-21, MW-25R, MW-38, MW-92 and MW-93) demonstrate decreasing trends, three monitoring wells (MW-172, MW-198 and RW-1) have no trend, and only a single well (MW-95) has an increasing trend.

Along the southern leading edge of the South Plume (i.e., close proximity to southern most portion of 5 µg/L contour as shown on Figure 10) there are eight monitoring wells with sufficient data to run Mann-Kendall analysis. Of these four wells (MW-186, TMW-16, TMW-26, and TMW-30) are adjacent to the 2018 ISCR treatment area, with only TMW-30 not demonstrating a decreasing trend. TCE at TMW-30 was reported at 2.7 µg/L during the October 2024 monitoring event. Three monitoring well are within the vicinity of Geren Road (MW-197, MW-203, and MW-206) and all three are demonstrating increasing trends. One monitoring well near the southeastern portion of the Site building is demonstrating an increasing TCE trend (MW-191).

Based on this analysis the South Plume demonstrates a potentially expanding plume. The 2023 Updated Remedy Work Plan presented a conceptual treatment area for the South Plume along the south side of the onsite building. Whirlpool is developing a remediation work plan for the South Plume that will propose an implementation plan for an ISCR treatment area. This work plan will be submitted under separate cover and is anticipated to be submitted within first quarter of 2025.

5 ISCR Remedial Effectiveness

Seven ISCR injection events have been performed at the Site between 2015 and 2024. Each ISCR injection event was performed in accordance with the respective action plan or work plan and approvals received from the ADEQ UIC Program (Inventory Requirements for Authorized by Rule Class V Wells as described in 40 CFR 144.84).

The ISCR technology employed during each of these events combines abiotic chemical reduction and anaerobic bioremediation for the treatment of chlorinated VOCs in groundwater. These physical, chemical, and biological processes combine to produce a reducing environment in the treated saturated zone to stimulate complete dechlorination of TCE and daughter products to non-toxic end breakdown products. ISCR reagents are typically effective for a timeframe of multiple years.

5.1 ISCR Injection Background

A complete history of the ISCR injection events between 2015 and 2020 have been detailed in prior annual reports. An implementation report for ISCR events conducted in 2024 is under development and will be submitted under separate cover and anticipated to be submitted during first quarter 2025. A brief overview of implemented ISCR remedy programs is provided herein:

- **September to October 2015 (North Plume).** This event was the pilot component of the final remedy for groundwater defined by the 2015 RADD for the Site (Figure 11).[2] Injections consisted of 4,844 gallons of ISCR reagents including ProvectIR-40™ [40% by weight zero valent iron (ZVI), magnesium oxide, and Dhc inoculum. Reagents were distributed across three treatment zones north the Site between Brazil Avenue and Jacobs Avenue west of Jenny Lind Road and comprised of a total of 44 temporary direct push injection points.
- **July to August 2018 (North Plume and South Plume).** This event consisted of injecting 21,874 gallons of ISCR reagents distributed across three areas of the Site, including 65 temporary injection points adjacent to the 2015 ISCR injection area (Figure 11), 64 temporary points within the southwestern area of the Site (Figure 12), and four points in the southeastern area of the Site (Figure 13). ISCR reagents for this event included ZVI, nutrients, hydrolyzed kelp, calcium propionate, sodium sulfite, Provect-IR™, yeast extract, vitamin B12, vitamin B2, and red yeast rice.
- **December 2019 (East Plume).** This event consisted of injecting 5,760 gallons of ISCR reagents distributed across 37 temporary injection points within the northeast corner parking lot of the Site (Figure 14). ISCR reagents for this event included ZVI, nutrients, hydrolyzed kelp, calcium propionate, sodium sulfite, Provect-IR™, Provect AMR compound, yeast extract, magnesium hydroxide, vitamin B12, and vitamin B2.
- **October 2020 (South Plume).** This event consisted of injecting 6,300 gallons of ISCR reagent distributed across 23 temporary injection points along the south property boundary in the vicinity of TMW-36 (Figure 15). ISCR reagents for this event included

[2] The 2015 RADD specified ISCO and/or ISCR for groundwater treatment.

ZVI, nutrients, hydrolyzed kelp, calcium propionate, sodium sulfite, Provect-IR™, Provect AMR compound, yeast extract, magnesium hydroxide, vitamin B12, and vitamin B2.

- **May to June 2024 (Neck Area).** This event consisted of injecting 17,010 gallons of ISCR reagent distributed across 81 temporary injection points along the north property boundary in the vicinity of MW-82 (Figure 16).
- **July to August 2024 (Source Area Recirculation).** This event consisted of extracting groundwater, mixing with amendments, and then reinjecting amended groundwater into two recirculation cells (Figure 17). 11,950 gallons of amended groundwater was recirculated through Recirculation Cell A, and 11,552 gallons through Recirculation Cell B. Extracted groundwater for each recirculation cell was amended with GeoForm™ Soluble Mix, ELS® Microemulsion, potassium bicarbonate, and SDC-9 Dhc bacteria
- **July to October 2024 (East Plume).** This event consisted of injecting 58,530 gallons of ISCR reagent distributed across 390 temporary injection points along the east property boundary (Figure 18). ISCR reagents for this event included Anaerobic BioChem (ABC©), ZVI, RTB-1 Dhc bacteria, KB1 primer, Magnesium Oxide (MagOx), and Guar gum.

5.2 ISCR Monitoring Results

Table 6 provides a summary of groundwater field parameter measurements during the October 2024 groundwater sampling event. Table 7 and Appendix D provide a summary of current and historical groundwater concentrations for Site COCs. Appendix E provides a graphical summary of contaminant concentrations for representative wells upgradient of, within, and downgradient of each plume treatment area. Based on review of the field measurements and analytical data provided within these tables, the following assessments have been prepared for the ISCR treatment zones across the Site. Each plume area and the status of the respective treatment area is discussed herein.

Three ISCR remedy events were performed in 2024 including the Neck Area, East Plume, and Source Area within the South Plume. As these implementations were performed within months of the October 2024 annual sampling event, there will be some influence of these remedy actions on wells within or near to these areas. This section will primarily focus on remedial trends related to remedy actions prior to 2024; however, influences from the 2024 remedy's will be discussed as appropriate. Future reports after additional analytical data are collected will provide a more thorough assessment of the effectiveness of the 2024 remedy implementations.

5.2.1 North Plume

Monitoring wells MW-61R, MW-194, TMW-10, TMW-11, TMW-21, and TMW-22/22R are located within or adjacent and down-gradient to the north treatment zone. Installation of the north treatment zones were completed in stages with an initial pilot study in 2015 and then an expanded treatment area in 2018. Analytical data for this treatment area can be summarized as follows:

- Biogeochemical data:
  - Iron concentration within all monitoring wells (MW-61R, MW-194, TMW-10, TMW-11, TMW-21, and TMW-22/22R) initially increased post injection as a result of ZVI within the injected reagent, and concentrations remain in the parts per million order of magnitude through the October 2024 monitoring event.
  - TOC concentrations increased within MW-194, TMW-10, TMW-11, TMW-21, and TMW-22/22R to a maximum of 13.4 mg/L, 2,240 mg/L, 13.2 mg/L, 3,930 mg/l, and 161 mg/L, respectively, by November 2018 or April 2019. Organic carbon concentrations have dropped since reaching peak concentrations at these well locations and in October 2024 TOC concentrations ranged from 1.2 mg/L to 3.5 mg/L.
  - Nitrate concentrations in groundwater were all non-detect, which is suggestive that reducing conditions exist within the treatment zone.
  - Sulfate concentrations in groundwater have generally been <25 mg/L and have been mostly consistent concentrations at each monitoring well.
  - VFAs (e.g., acetic acid, butyric acid, and propionic acid) are an intermediate degradation product that are generated during biodegradation of Site COCs. VFAs were generated/increased during early post injection monitoring events; however, analytical results from later post injection monitoring events through to October 2024 show a decreasing trend of detections, or non-detects for previously detected VFAs.
  - ORP field data measured during the October 2024 groundwater sampling event ranged from -374 mV to -55 mV. The drop in ORP from TMW-23 (-16 mV) to TMW-10/TMW-11 (-165 mV and -170 mV) as groundwater has flowed into the treatment zone is a positive indicator that the treatment zone is effectively creating a reducing environment. Negative ORP values are generally indicative of conditions capable of reductive dechlorination and ORP values less than -100 mV are stronger evidence still.
- VOC data:
  - TCE concentrations in groundwater collected from TMW-10, TMW-11, TMW-21, and TMW-22/22R have been reduced by at least 91% since each well's respective baseline sampling event.
  - As shown in Appendix E, groundwater analytical trends at MW-61R show an increasing trend prior to each injection event performed within the North Plume (e.g., 2015 and 2018). After each injection event groundwater concentrations from within MW-61R have shown significant reductions in TCE (86% and 93%, respectively).
  - cDCE concentrations in groundwater at all monitoring wells briefly increased as TCE was degraded to a temporary peak concentration within one year of initial injections followed by a period of decreasing concentrations. In the case of TMW-

10 and TMW-11, cDCE experienced two temporary peaks following the 2015 and 2018 injection events.

- VC concentrations in groundwater at TMW-10, TMW-11, TMW-21, and TMW-22/22R briefly increased as TCE and cDCE were degraded to a temporary peak concentration followed by a period of decreasing concentrations. Groundwater from MW-61R has mostly been non-detect for VC but has been detected in groundwater since October 2021. However, all detections of VC since October 2021 have been below the RAL of 2 µg/L. Groundwater collected from MW-194 has been non-detect for VC since baseline sampling in July 2018.
- Detectable concentrations of ethene and ethane have been observed in groundwater during many post injection monitoring events. The detections of ethene and ethane are not as high as ideally desired (typically <5 µg/L), however detections of these analytes do demonstrate that complete biodegradation of Site COCs is occurring.
- Based on lower detectable concentrations of biodegradation breakdown products (e.g., cDCE, VC, and ethene/ethane) and based on continued elevated iron concentrations, abiotic degradation of Site COCs is likely complimenting on-going bioremediation processes.

Analytical data collected within the North Plume treatment area suggests that a remediation treatment zone was successfully established and that a reducing environment still exists that is capable of complete reductive dechlorination and abiotic degradation of Site COCs. Graphs within Appendix E provide time series graphs demonstrating establishment and on-going remediation trends for Site COCs. Biogeochemical data, including recently reduced TOC and VFA concentrations, suggests that the treatment zone is running low on carbon and energy sources.

It is warranted at this time to consider another dose of bioremediation reagent to compliment continued abiotic degradation before the carbon source has been completely exhausted. Whirlpool submitted a work plan to ADEQ on December 19, 2023, for implementation of an ISCR treatment area located in the area of previous North Plume injections. This new injection program will maintain the previously established enhanced reductive dechlorination zone. ADEQ subsequently approved this work plan on March 5, 2024. Implementation of this new North Plume ISCR treatment area is anticipated for 2025, and Whirlpool will communicate with ADEQ once this mobilization is scheduled.

Another work plan was also submitted to ADEQ on December 19, 2023, and subsequently approved by ADEQ on March 5, 2024, for implementation of a new ISCR treatment area in the Neck Area. The Neck Area injections were along the south side of Ingersoll Avenue between the South and North Plume. The Neck Area ISCR treatment area was installed in 2024 and is anticipated to intercept and remediate contaminated groundwater from the South Plume to maintain separation between the South and North Plumes.

5.2.2 East Plume

A limited scale ISCR injection event was installed in 2018 with TMW-34 installed as a down-gradient monitoring well and MW-185 as an up-gradient. Northeast bioremediation treatment zones were established adjacent to MW-91 and MW-99 during the December 2019 ISCR injection event. In 2024, an approximately 1,300 feet long ISCR treatment area was installed across the length of the eastern side of the building. As the recent East Plume treatment area was completed only just before the October 2024 annual sampling event, the following discussion regarding analytical data will pertain to the 2019 ISCR installations with some influence from the 2024 injections. Post remedy analytical data related to the 2019 treatment areas can be summarized as follows:

- Biogeochemical data:
    - Iron concentrations within the down-gradient well TMW-34 initially increased by an order of magnitude post injection as a result of ZVI within the injected reagent, and concentrations remain elevated through the October 2023 Monitoring Event. Iron concentrations initially increased by three orders of magnitude at MW-91 and MW-99 post injection as a result of ZVI within the injected reagent, and concentrations remain in the parts per million order of magnitude through the October 2024 monitoring event. However, total iron at MW-91 and TMW-34 in October 2024 are greater than reported in October 2023 at 6.47 mg/L up to 19 mg/L and 1.01 mg/L up to 14 mg/L, respectively. These increases in are likely attributable to the ISCR injection event completed in 2024.
    - TOC concentrations at TMW-34 initially increased from 0.72 mg/L in November 2018 to 3 mg/L in April 2019; however, concentrations have decreased to 0.56 mg/L by October 2019 and have mostly remained low since and were non-detect in October 2023. TOC at TMW-34 was reported at 8.3 mg/L for the October 2024 sampling event. TOC concentrations initially increased to 225 mg/L at MW-91 and 4,590 mg/L at MW-99 during the initial post injection event in May 2020; however, concentrations have steadily decreased since that time to 3.6 mg/L and 6 mg/L, respectively, during the October 2023 monitoring event. TOC at MW-91 was reported at 18 mg/L for the October 2024 sampling event. These increases in TOC are likely attributable to the ISCR injection event completed in 2024.
    - Nitrate and sulfate concentrations have not substantively decreased in groundwater collected from TMW-34 since initial injection in 2018, however in October 2024 nitrate was non-detect and sulfate was reduced to 3.1 mg/L. Nitrate has been reduced at MW-91 and MW-99 to non-detect, which is suggestive of reducing conditions have been established within the northeast treatment zone. Sulfate was non-detect at MW-91 for the October 2024 monitoring event, which is suggestive of highly reducing conditions having been established within the northeast treatment zone. These additional reductions in nitrate and sulfate as compared to previous years are likely attributable to the ISCR injection event completed in 2024.

  - Limited detections of VFAs have been detected in groundwater collected from TWM-34 since the 2018 injections. VFAs were produced/increased during the 2020 post injection monitoring events at MW-91 and MW-99, however, analytical results from the October 2024 monitoring event generally show decreased detections, or non-detects for previously detected VFAs.
  - ORP field data measured during groundwater sampling at TMW-34 and MW-185 were -290 mV and -134 mV, respectively. Negative ORP values are generally indicative of conditions capable of reductive dechlorination. The drop in ORP from MW-185 to TMW-34 as groundwater has flowed through the treatment zone is a positive indicator that the treatment zone is effectively creating a reducing environment. Similarly, ORP field data measured during groundwater sampling at MW-87 (upgradient of treatment area) was +211 mV while monitoring wells downgradient of the treatment area (MW-91 and MW-99) were -136 mV and -389 mV, respectively. Negative ORP values are generally indicative of conditions capable of reductive dechlorination and ORP values less than -100 mV are stronger evidence still.

- VOC data:
  - TCE and cDCE concentrations in groundwater collected from TWM-34 had steadily increased from the initial November 2018 baseline sampling event through to the most recent sampling event in October 2023 (TCE – 7.4 µg/L to 147 µg/L and cDCE – 1.5 µg/L to 24.3 µg/L). TCE was reported at a reduced detection of 16 µg/L along with a more substantial increase in cDCE to 150 µg/L. Similarly, TCE had been reduced in groundwater by approximately 70% at MW-91 through October 2023 (437 µg/L in November 2018 to 132 µg/L) but has now been reduced by 99% through October 2024 (3.2 µg/L). The 2024 injection program has likely contributed to reductions of Site COCs, either through reductive dechlorination, abiotic transformations, or temporary sequestration.
  - VC has been non-detect in groundwater sampled from MW-99 since the baseline sampling. VC had been non-detect at TMW-34 from baseline through October 2023, but was reported at 1.3 µg/L in October 2024. Similarly, VC was detectable at MW-91 at 1.5 µg/L, which is an increase over detections more typically less than 0.4 µg/L. These increases in VC, along with the reduction in TCE and temporary increase in cDCE, may be an indication of Site COC degradation influenced by the 2024 injection program instead of sequestration of contaminants.
  - Detectable concentrations of ethene and ethane were initially observed in groundwater during the 2018 and 2019 sampling events at TMW-34; however, both ethene and ethane were not detected in October 2023. However, water collected during the October 2024 monitoring event was reported to contain 1.1 µg/L ethene in TMW-34. Ethene and ethane were non-detect in MW-91 and MW-99 during the October 2024 sampling event. The detection of ethene at TMW-34, although not as high as ideally desired does still demonstrate that complete biodegradation of Site COCs is occurring.

- Based on the lower detectable concentrations of biodegradation breakdown products (e.g., cDCE from MW-91 and MW-99, low or non-detect VC concentrations, and low or non-detect ethene/ethane concentrations) and based on elevated iron concentrations, abiotic degradation of Site COCs is likely complimenting on-going bioremediation processes.

Analytical data collected within the East Plume treatment areas suggests that an initial remediation treatment zone was successfully established and that a reducing environment still exists, has been bolstered by recent injections and is capable of complete reductive dechlorination and abiotic degradation of Site COCs. Graphs within Appendix E provide time series graphs demonstrating establishment and on-going remediation trends for Site COCs.

Biogeochemical data, including reduced TOC and VFA concentrations through October 2023, suggested that the treatment zones were running low on carbon and energy sources. It was warranted to consider another dose of bioremediation reagent to compliment continued abiotic degradation before the carbon source was completely exhausted. To this point, a work plan was submitted to ADEQ on December 19, 2023, for implementation of a new ISCR treatment area that will be installed across the eastern boundary of the Site building. ADEQ subsequently approved this work plan on March 5, 2024. The East Plume ISCR treatment area was installed in 2024 and is anticipated to intercept and remediate contaminated groundwater and establish control of the East Plume.

5.2.3 South Plume

Source Area

Two recirculation cells were operated as part of the SAR program for a week each during the summary of 2024. The SAR program recirculation extracted groundwater amended with ISCR chemistry. Recirculation Cell A contained MW-92 within the interior of the cell and MW-198 along its perimeter. Similarly, Recirculation Cell B contained ITMW-19 within the interior of the cell and MW-172 along its perimeter. The October 2024 monitoring event was the first sampling since implementation of the SAR.

The following will provide a brief summary of biogeochemical data of select results from the October 2024 sampling event. VOC data is not specifically discussed herein as recirculation activities amend and move water around within the treatment area as water is extracted and reinjected in different areas of the recirculation cells. Future reports will provide a more thorough review of remedial trends and remedy effectiveness as more analytical data is collected.

- Interior wells MW-92 and ITMW-19 were reported to have 56 mg/L and 120 mg/L of iron, respectively, as compared to their respective detections of 0.084 mg/L and 0.049 mg/L from October 2023. Perimeter wells MW-198 and MW-172 were reported to have 69 mg/L and 3.7 mg/L of iron. MW-198 had an October 2023 concentration of iron reported as 0.121 mg/L. MW-172 has not been a part of the recent routine annual or semi-annual groundwater sampling activities.
- Interior wells MW-92 and ITMW-19 were reported to have 500 mg/L and 1,700 mg/L of TOC. Perimeter wells MW-198 and MW-172 were reported to have 63 mg/L and 1.4

mg/L of TOC. MW-198 had an October 2023 concentration of iron reported as 0.65 mg/L. The other wells were not sampled for TOC during the October 2023 annual groundwater sampling activities.

- Interior wells MW-92 and ITMW-19 were recorded to have ORP measurements of -45 mV and -199 mV, respectively. Perimeter wells MW-198 and MW-172 were recorded at -184 mV and -202 mV, respectively. ORP measurements for MW-92, ITMW-19, and MW-198 in October 2023 were +175 mV, -92 mV, and +27 mV, respectively. Negative ORP values are generally indicative of conditions capable of reductive dechlorination and ORP values less than -100 mV are stronger evidence still.

Analytical data collected within the South Plume SAR treatment area suggests that an initial remediation treatment zone was successfully established, and subsurface conditions are conducive toward promoting reductive dechlorination.

Down-gradient Area

TMW-36 and TMW-36B are located directly adjacent to and down-gradient of the southwest corner of the October 2020 ISCR injection area. TMW-16, TMW-26, TMW-32, and MW-186 are located within or adjacent and down-gradient to a southwest treatment zone. TMW-25 is adjacent to, but up-gradient of, the most up-gradient southwest treatment zone. TMW-36B was generally non-detect for all chlorinated VOCs from October 2020 through October 2023, therefore discussions below will mostly focus on TMW-36 and additional wells to the southwest. Analytical data for this treatment area can be summarized as follows:

- Biogeochemical data:
    - Iron concentrations initially increased by two orders of magnitude at TMW-36 between October 2020 and October 2021 (<50 µg/L to 3,490 µg/L) as a result of ZVI within the injected reagent and has since further increased to 4,500 µg/L in October 2024. Iron concentrations within monitoring wells TMW-16, TMW-25, TMW-26, TMW-32, and MW-186 initially increased by at least three orders of magnitude post injection as a result of ZVI within the injected reagent, and concentrations remain elevated through the October 2024 monitoring event.
    - TOC concentrations did not substantively change post injection and only increased at TMW-36 from 0.37 mg/L to 0.68 mg/L from October 2020 to October 2021. In October 2024 the TOC concentration increased to 3.3 mg/L. TOC concentrations increased within TMW-16, TMW-26, and MW-186 to at least 2,980 mg/L by November 2018. Organic carbon concentrations have dropped since initial installation of these treatment zones at these well locations and in October 2024 TOC concentrations ranged from 6.4 mg/L to 11 mg/L. At TMW-32, TOC increased initially to 4.8 mg/L by November 2018 and has since dropped to 1.3 mg/L by October 2024.
    - Nitrate was reduced in groundwater at TMW-36 from 16.7 mg/L in October 2020 to 0.29 mg/L in October 2021, which was suggestive that reducing conditions have been established within the treatment zone. Nitrate has rebounded slightly

as was reported at 1.7 mg/L in October 2024 at TMW-36. Nitrate concentrations in groundwater at TMW-16, TMW-26, TMW-32, and MW-186 have either dropped to, or have always been, <1 mg/L or are now non-detect, which is suggestive that reducing conditions have been established within the treatment zone.

- Sulfate was reduced in groundwater at TMW-36 from 56.8 mg/L in October 2020 to 15.3 mg/L in October 2021 and was reported as non-detect in October 2024, which is suggestive that strongly reducing conditions were established within the treatment zone. Sulfate concentrations in groundwater at TMW-16, TMW-26, and MW-186 had dropped to and mostly remained <20 mg/L through October 2023, which was suggestive that strongly reducing conditions have been established within the treatment zone within these areas. Sulfate has rebounded slightly and was reported between 33 mg/L to 42 mg/L in October 2024 at TMW-16, TMW-26, and TMW-32.
- ORP field data measured during groundwater sampling at TMW-36 was measured to be -8 mV. ORP field data measured during groundwater at TMW-16, TMW-26, and MW-186 ranged from -211 mV to +15 mV. Negative ORP values are generally indicative of conditions capable of reductive dechlorination and ORP values less than -100 mV are stronger evidence still.

- VOC data:
  - TCE concentration was initially reduced in groundwater at TMW-36 from 389 µg/L in October 2019 to 11.3 µg/L in April 2021. However, groundwater concentrations of TCE since have fluctuated as high as 110 µg/L to as low as 2.3 µg/L with an average concentration of approximately 72 µg/L. At TMW-16, TMW-26, TMW-32, and MW-186 TCE has been reduced in groundwater an average of 98% from the baseline sampling event.
  - cDCE concentrations in groundwater from TMW-36 were mostly stable at concentrations <10 µg/L from the baseline October 2019 monitoring event through April 2021. However, since the October 2021 sampling event cDCE has demonstrated an apparent temporary increased concentration to a max of 81.5 µg/L in October 2022 and down to 51 µg/L in October 2023. cDCE concentrations in groundwater at monitoring wells to the southwest briefly increased to a temporary peak concentration by April 2019 or October 2019 before decreasing to near baseline concentrations or lower. Temporary increased concentrations in cDCE within bioremediation treatment areas is most likely a result as TCE degradation.
  - VC concentrations in groundwater from TMW-36 have mostly been stable at concentrations ranging from non-detect to 0.4 µg/L from the baseline October 2019 monitoring event through October 2024. VC concentrations in groundwater at monitoring wells to the southwest briefly increased as TCE and cDCE was degraded to a temporary peak concentration by October 2019 or May 2020 before decreasing to near baseline concentrations or lower.

- Detectable concentrations of ethene and ethane have been observed in groundwater during prior sampling events at TMW-36, although these analytes were non-detect during the October 2024 monitoring event. Ethene and ethane have been detected within monitoring wells to the southwest, although not as high as ideally desired (generally 5 µg/L or lower); however, detections of these analytes do demonstrate that complete biodegradation of Site COCs is occurring.
- Based on the lower detectable concentrations of biodegradation breakdown products (e.g., limited detections of cDCE, VC, ethane and ethene) and based on elevated iron concentrations during the October 2024 sampling event, abiotic degradation of Site COCs is likely complimenting on-going bioremediation processes.

Analytical data collected within the South Plume downgradient treatment areas suggests that an initial remediation treatment zone was successfully established, and that reducing environments exist that are capable of complete reductive dechlorination and abiotic degradation of Site COCs. Graphs within Appendix E provide time series graphs demonstrating establishment and on-going remediation trends for Site COCs. Recent TCE concentration increases in October 2021 and into 2024, coupled with increased sulfate concentrations, may indicate greater concentrations of contaminants have more recently been traveling through the South Plume treatment area. The increased cDCE concentrations during the same time period indicate that the South Plume treatment area is continuing to remediate TCE impacted groundwater as it travels through the area. Biogeochemical data, including reduced TOC and VFA concentrations, suggests that the treatment zones are running low on carbon and energy sources. It is warranted at this time to consider another dose of bioremediation reagent to compliment continued abiotic degradation before the carbon source has been completely exhausted.

The 2023 Updated Remedy Work Plan presented a conceptual treatment area for the South Plume along the south side of the onsite building. Whirlpool is developing a remediation work plan for the South Plume that will propose an implementation plan for an ISCR treatment area south of the onsite building. This work plan will be submitted under separate cover and is anticipated to be submitted within first quarter of 2025.

As discussed within Section 5.2.1, Neck Area injections were performed along the south side of Ingersoll Avenue between the South and North Plume. The Neck Area ISCR treatment area was installed in 2024 and is anticipated to intercept and remediate contaminated groundwater from the South Plume to maintain separation between the South and North Plumes.

5.3 ISCR Summary

An ISCR treatment zone remedy has been installed within numerous areas of the Site, both historically and more recently in 2024. In general, analytical data collected from the various treatment areas implemented pre-2024 indicate that remediation treatment zones were successfully established, and that reducing environments still exist that are capable of complete reductive dechlorination and abiotic degradation of Site COCs. Additional ISCR treatment areas

were implemented in 2024 to install new and/or either expand or reinforce previously established remedy areas.

Work plans for the North Plume, East Plume, Neck Area, and Source Area were submitted to the ADEQ on December 19, 2023, and subsequently approved by ADEQ on March 5, 2024. These work plans proposed implementation of either a new ISCR treatment areas or retreatment to existing treatment areas to maintain or establish plume control. The East Plume, Neck Area, and Source Area remedy programs were implemented as proposed within their work plan in 2024. The North Area implementation is anticipated to be completed in 2025. A new work plan for implementation for a South Plume ISCR treatment area south of the onsite building is anticipated to be submitted to ADEQ in early 2025.

6 Vapor Intrusion Results and Discussion

6.1 Onsite Vapor Intrusion Evaluation

As discussed in Section 3.4, the purpose of the onsite air and sub-slab vapor sampling is to evaluate potential vapor intrusion to onsite workers as a result of TCE impacts in groundwater beneath the former Whirlpool building.

Monitoring data to assess potential for vapor intrusion for the onsite building was assessed in April and November 2015. The onsite building has been renovated by the current owner, Phoenix, to facilitate future use for warehousing purposes. The building renovation included removal of equipment, filling of former pits, interior painting, and subdividing the interior of the building. Since Phoenix's completion of renovations additional vapor intrusion sampling events have been conducted from 2019 to 2024 (Ramboll 2019, Ramboll 2021a, Ramboll 2021b, Ramboll 2022b, Ramboll 2023a, Ramboll 2023b, Ramboll 2024a).

While conducting a site walkthrough, Ramboll staff observed air blasting activities in the southern portion of the building formerly occupied by Mars Petcare as the space was being prepared for a potential future tenant. As a result, air sampling location Zone 1-1 was not sampled during the October 2024 event due to the air blasting activities.

6.1.1 Onsite Indoor Air

The onsite indoor air sampling results are summarized in Table 9. On October 8, 2024, Ramboll field staff noted a decreasing pressure on the gauge for Z5-2 after the summa canister valve was sealed. Subsequently, on October 11, 2024, Ramboll resampled Z5-2 to ensure a representative sample was collected in the event the original sample was compromised. Upon receipt by the lab, it was confirmed that although the summa cannister collected on October 8th at Z5-2 had a faulty pressure gauge the seals and final pressure within that cannister were intact and that the sample was valid. As a result, there are two samples for Z5-2 for the October 2024 sampling event and both samples are valid for use for assessing indoor air concentrations.

The following compounds were detected above the screening levels in indoor air samples in October 2024: Chloroform, ethyl benzene, n-heptane, isopropanol, and TCE. TCE was detected in 8 air samples collected within Zones 1-6, however only three of these locations reported TCE in air above USEPA and ADEQ indoor air screening levels. TCE concentrations detected in indoor air ranged from 0.45 – 2.3 micrograms per cubic meter of air (µg/m^3) (compared to the USEPA industrial indoor air screening level of 0.88 µg/m^3 based on a hazard index [HI] of 0.1). The screening levels used in this evaluation are conservative and are not intended to represent action levels.

6.1.2 Onsite Sub-Slab Vapor

The onsite sub-slab vapor sampling results are summarized in Table 10. The following compounds were detected above the USEPA sub-slab vapor screening levels[3] in at least one sub-slab soil vapor sample in October 2024: Dichlorodifluoromethane, PCE, TCE, and VC. Dichlorodifluoromethane exceeded its respective screening level at sample location 2-1; PCE at sample locations 2-1, 3-2, and 6-1; TCE at sample locations 2-1, 3-1, 3-2, 4-1, 4-2, 5-1, 5-2, Zone 5 Office, and 6-1; and VC at sample location 3-1.

Based on these results, the presence of TCE underneath the building floor may be contributing to indoor air TCE concentrations.

6.1.3 Risk Estimates for Onsite Vapor Intrusion

In the initial screening process detected indoor air constituent concentrations were compared to non-carcinogenic screening levels based on a target hazard quotient of 0.1 to account for additive effect of multiple contaminants resulting in a TCE indoor air screening level of 0.88 µg/m^3 for the industrial worker. Results of the indoor air sampling indicated that 3 of 12 samples exceeded the indoor air screening level in October 2024. In accordance with USEPA guidance (USEPA 2015a and 2015b), risk estimates were calculated for the onsite worker in each zone of the building to evaluate potential for increased risk from vapor intrusion. USEPA's equations for inhalation exposure, default exposure parameters (Table 11), and toxicity values (Table 12) were used for this evaluation.

Risks for the onsite worker for each building sampling location are presented in Table 13. For sample location 5-2, the risk estimates for both sampling dates (October 8 and October 11) are presented. The cumulative lifetime cancer risk estimates for exposure to constituents in indoor air ranged from 2E-07 to 8E-07; these values are below the USEPA cumulative cancer target of 1E-04. The cumulative HI estimates for exposure to constituents indoors in October 2024 ranged between 0.06 and 0.3. These values are below the USEPA target HI of 1.

6.1.4 Summary of Onsite Indoor Air and Sub-Slab Vapor Evaluation

The indoor air data indicate a potential complete exposure pathway due to vapor intrusion into the building. Of the detected constituents, only TCE exceeded its respective indoor air screening level. Cumulative risk estimates for the onsite worker were below or within ADEQ acceptable range of non-cancer hazard and cancer target values. These results do not indicate health risks from indoor exposures under current operating conditions.

6.2 Offsite Vapor Intrusion Evaluation

In 2012, the potential for vapor intrusion from groundwater into residential buildings in the neighborhood north of the Site were evaluated using multiple lines of evidence in a HHRA. This was initially presented as Appendix A of the Revised Risk Management Plan (RRMP)

[3] These sub-slab vapor screening levels were calculated using a generic attenuation factor of 0.03 from indoor air to sub-slab vapor.

(ENVIRON 2013). The risk assessment included the use of groundwater and soil vapor data in the evaluation of the potential for vapor intrusion. In January 2016, the risk assessment was updated with the monitoring data collected after the 2013 risk assessment (Ramboll Environ 2016a). The use of multiple lines of evidence in these risk assessments is consistent with USEPA's recommendations in its 2015 vapor intrusion guidance documents (USEPA 2015a and 2015b).

Monitoring data collected during the 2024 annual sampling event from shallow groundwater monitoring wells and vapor monitoring points are used to evaluate vapor intrusion in residential buildings in the neighborhood. This assessment is in accordance with the methods and assumptions described in the 2013 and 2016 risk assessment reports. Groundwater, soil vapor, crawl space air, and indoor air have been monitored since 2014 to assess the potential for vapor intrusion in the neighborhood north of the Site and the onsite building. These sampling events include four quarterly monitoring events in 2014 and 2015, and semi-annual monitoring events from 2016-2024.

Data collected in previous sampling events has showed that TCE vapor intrusion from groundwater is not indicative of a public health concern. These findings, based on multiple lines of evidence involving the evaluation of groundwater, soil vapor, crawl space air, and indoor air data, corroborate the original groundwater vapor intrusion modelling results which indicate vapor intrusion from groundwater is not occurring at levels that would present a public health concern. The results from the current sampling event will be discussed below.

6.2.1 Summary of Sampling for Offsite Vapor Intrusion

The most recent groundwater samples for vapor intrusion assessment were collected on October 08-11, 2024, in accordance with the RGWMP, section "Shallow Groundwater Monitoring for Vapor Intrusion Assessment" and Table 1 (Ramboll Environ 2016b); each of these samples is discussed in this section. Groundwater samples for vapor intrusion assessment[4] were collected from monitoring wells MW-175, MW-176 and MW-178, which are located at two parcels (Parcels 2 and 3) in the neighborhood and at one parcel (Parcel 5) south of the neighborhood. Soil vapor sampling was attempted at associated soil vapor monitoring points VP-7, VP-8, VP-12, and VP-14. Water was encountered in all these soil vapor monitoring points. The sampling was performed following USEPA and industry standard methods.

Perched water filled the vapor monitoring points VP-7, VP-8, VP-9, VP-10, VP-12, and VP-14 and water from these monitoring points could not be completely purged from the sampling train. An attempt was made to collect a water sample from each of these vapor points, per the sampling modifications discussed in the Second Quarter 2014 Soil Vapor Monitoring/Vapor Intrusion Report (Environ 2014b). A water sample was collected from VP-7, VP-8, VP-12, and VP-14. Neither an air sample nor a water sample was able to be retrieved from locations VP-9 and VP-10 due to insufficient water after purging.

[4] According to the RGWMP (Ramboll 2016c), MW-55R (in Parcel 6) is sampled for purposes other than vapor intrusion assessment. Parcel 6 is no longer included for vapor intrusion assessment.

Information regarding the installation of the vapor monitoring points can be found in the Fourth Quarter 2015 Soil Vapor Monitoring and Vapor Intrusion Assessment Report (Ramboll Environ 2015). The field procedures used during the soil vapor sampling attempts were consistent with the methodology described in the First Quarter 2014 Soil Vapor Monitoring/Vapor Intrusion Report (ENVIRON 2014a) and the modifications discussed in the Second Quarter 2014 Soil Vapor Monitoring/Vapor Intrusion Report (ENVIRON 2014b); the sampling attempts on October 08-11, 2024, were preceded by at least five consecutive days with less than 0.1 inches of rain. Precipitation data for October 2024 are provided in Appendix F.

6.2.2 Risk Assessment Results

Three sources of water data were used to evaluate potential offsite vapor intrusion risks. First, groundwater data from monitoring wells, injection wells, and temporary monitoring wells in the North Plume with screened intervals above 20 feet below ground surface (bgs) collected during the 2023 annual sampling event were evaluated. This includes all wells in the North Plume shown in Table 7 except for wells screened below 20 feet bgs: MW-87, MW-89, MW-91, MW-96, and MW-97. Second, groundwater data from shallow monitoring wells which were installed at Parcels 2, 3, and 5 as summarized on Table 14. Figures 3A and 3B show the locations of the groundwater monitoring wells included in Table 14. Third, perched water data from soil vapor points sampled during the 2024 annual sampling event were evaluated and these sampling results are also included on Table 14.

The maximum detected groundwater concentrations among the monitoring wells in the neighborhood that were sampled in October 2024 are summarized in Table 15. These concentrations were used to calculate upper-bound risk estimates for potential vapor intrusion from groundwater into residences in the neighborhood. This calculation was performed using the approach in Section 6.5.2 of the ADEQ-approved RRMP and in the 2016 risk assessment. The calculation of and input parameters for these risk estimates are included as Appendix G. As shown in Table 15, the calculations resulted in upper-bound cumulative cancer risk and non-cancer HI estimates of 2E-06 and 0.4, respectively. These risk estimates are below the ADEQ's risk management limits (RMLs) of 10E-04 and 1, respectively, for reasonable maximum exposure (RME) risks (ADEQ 2005). The calculations for risk estimates discussed in this section are included in Appendix G. Toxicity values used in the risk calculations are current as of December 2023.

Soil vapor monitoring points and nearby groundwater monitoring wells were installed at five parcels in January 2015 and one additional parcel in June 2015 to provide additional lines of evidence to evaluate the potential for vapor intrusion from groundwater. Where soil vapor data could not be collected but perched water samples could be collected from the soil vapor monitoring points, data from these samples were used to confirm the conclusions of the groundwater vapor intrusion risk assessment.

The following sections describe the evaluation of groundwater, soil vapor, and perched water data from the co-located vapor points and monitoring wells at each of the three parcels sampled for vapor intrusion assessment in April 2021 per the RGWMP (Ramboll Environ 2016b).

Perched water data from Parcel 4 are also evaluated, even though Parcel 4 was excluded from the vapor intrusion assessment (Ramboll Environ 2016b).

Parcels in the Neighborhood: Parcels 2, 3, and 4

Parcel 2

At Parcel 2, vapor intrusion risks were estimated based on the groundwater data from MW-175, VP-7, and VP-8 based upon the approach discussed above for groundwater. A synthesis of the upper-bound cumulative cancer risk and non-cancer HI estimates for groundwater water are below. Table 16 provides a more complete summary of these results.

Sampling Location	Depth to Water (feet bgs)	Upper-bound Cumulative Cancer Risk	Non-Cancer HI
MW-175	12	3E-07	0.07
VP-7	5.5	3E-08	0.005
VP-8	10.5	4E-08	0.009

These risk estimates are all within ADEQ's RMLs for RME risks. Additionally, these results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 2. Only perched water data were evaluated at Parcel 2 because a soil vapor sample could not be collected from the vapor monitoring points at this Parcel.

Parcel 3

At Parcel 3, vapor intrusion risks were estimated based on the groundwater data from MW-176 and the approach discussed above for groundwater. As shown in Table 16, the upper-bound cumulative cancer risk and non-cancer HI estimates for groundwater at MW-176 are 1E-06 and 0.1, respectively, which are within the ADEQ's RMLs for RME risks.

In previous sampling events, soil vapor concentrations from VP-9 were used to calculated upper-bound risk estimates. However, no sample was collected from VP-9 during the 2023 and 2024 sampling event. Since the concentrations of Site COCs at MW-176 have not varied greatly relative to historic observations, risk estimates from these two locations are sufficient evidence that quantitative risks at this parcel are within the ADEQ's risk management targets. The following paragraphs in this section describe multiple lines of evidence collected during previous sampling rounds.

The highest TCE concentration at VP-9 was detected in 2015. In November 2015, TCE was detected at a concentration of 1,200 µg/m^3 in the vapor at VP-9. Because of the large increase in the TCE soil vapor concentration in November 2015, outdoor, crawl space, and indoor air samples were collected at Parcel 3 on November 4 and 5, 2015. As discussed in Section 3.2.1.3 of the *Fourth Quarter 2015 Soil Vapor Monitoring and Vapor Intrusion Assessment*

Report, the low TCE concentrations detected in the outdoor (< 0.034 µ/m^3), crawl space (< 0.062 µg/m^3), and indoor air (< 0.032 µg/m^3) samples were determined to not be associated with groundwater conditions related to the Site (Ramboll Environ 2015). The absence of detectable plume-related concentrations in the air data indicated an incomplete vapor intrusion pathway from the groundwater plume. This determination is the same as that based on the outdoor, crawl space, and indoor air data collected at Parcel 3 in April 2015 (all TCE concentrations were below detection limits of 0.039 µg/m^3 or less) at the request of the resident (when VP-9 had a TCE vapor concentration of 0.25 µg/m^3).

The findings from the November 2015 vapor intrusion assessment are still considered to be valid. Since the current TCE soil vapor sampling location at VP-9 is water-flooded, vapor diffusion is expected to be much slower in this location than in November 2015 when air sampling data demonstrated that the vapor intrusion pathway from groundwater did not actually exist. A summary of TCE concentrations at Parcel 3 in all media (groundwater, soil gas, crawl space, indoor air, and outdoor air) can be found on Table 17.

Although the upper-bound risk estimates for soil vapor from VP-9 have sometimes been higher than the risk estimates based on the perched water data from VP-10, they should not be interpreted as an indication that the risk estimates from the water data are not adequately conservative. Rather, the interpretation should be that the risk estimates based on applying the USEPA's generic attenuation factor to the soil vapor data are upper bound rather than reasonable worst-case, and thus, are more conservative than necessary. As discussed in Section 6.8.2 of the RRMP, these risk estimates ignore the substantial attenuation due to the approximately 5 feet of silty clay between the soil vapor sample depth and ground surface. Accounting for such attenuation would result in risk estimates for VP-9 that are substantially lower than those shown in Table 16.

Using multiple lines of evidence that include crawl space and indoor air data, the past four years of assessment results do not indicate vapor intrusion from groundwater is posing an unacceptable risk at Parcel 3.

Since the shallow groundwater at Parcel 3 has had the highest TCE concentrations in the plume under the neighborhood, the 2015 crawl space and indoor air results at Parcel 3 also provide a relevant line of evidence for other residential properties in the neighborhood overlying the plume. As shown in Appendix D showing the historical data, the highest TCE concentrations in shallow groundwater in the neighborhood since 2015 were at MW-176 and VP-10, which are located at Parcel 3. Since the crawl space and indoor air data at Parcel 3 do not show evidence of a complete vapor intrusion pathway, it is reasonable to expect the same findings at properties where TCE concentrations in shallow groundwater are lower.

Parcel 4

At Parcel 4, vapor intrusion risks were estimated based on the perched water data from VP-12 and the approach discussed above for groundwater with the depth to water used as 12.5 feet bgs. As shown in Table 16, the upper-bound cumulative cancer risk and non-cancer HI estimates for groundwater at VP-12 are 4E-08 and 0.009, respectively, which are well within the

ADEQ's RMLs for RME risks. These risk estimates are all within ADEQ's RMLs for RME risks. Additionally, these results confirm that vapor intrusion from groundwater does not pose an unacceptable risk at Parcel 4. Only perched water data were evaluated at Parcel 4 because a soil vapor sample could not be collected from the vapor monitoring point at this location.

South of Neighborhood – Parcel 5

Parcel 5 is a vacant non-residential property located south of Ingersoll Avenue and the residential neighborhood. Risk estimates for potential vapor intrusion from groundwater into residential buildings were estimated based on the data collected at this parcel. Groundwater vapor intrusion risks were calculated using the groundwater data from MW-178, and VP-14, and the approach discussed above for groundwater. As shown in Table 16, all soil vapor concentrations in MW-178 were non-detects and therefore, no upper bound cumulative cancer risk and non-cancer HI estimates from groundwater at MW-178 were calculated; this is equivalent to zero cumulative cancer risk and non-cancer HI. As shown in Table 16, the upper-bound cumulative cancer risk and non-cancer HI estimates from groundwater at VP-14 are 7E-09 and 0.003, respectively, which are below the ADEQ's RMLs for RME risks.

In previous monitoring events, vapor intrusion risk was also calculated using groundwater data from MW-33R and MW-179 as an additional line of evidence. However, MW-33R was abandoned during the 2016 annual event due to road construction and MW-179 was purged dry and had insufficient recharge to be sampled during the 2024 Annual Event.

The results from MW-178 and VP-14 confirm that vapor intrusion from groundwater does not pose an unacceptable risk if there was a residence at Parcel 5.

6.2.3 Summary of Sampling for Offsite Vapor Intrusion

The results from the current sampling event confirm the results from prior sampling events:

- Risk estimates for vapor intrusion from groundwater in the neighborhood are below the ADEQ's and USEPA's RMLs;
- Risk estimates for vapor intrusion from shallow monitoring wells and perched water samples from vapor monitoring points are below ADEQ's and USEPA's RMLs; and
- The concentrations of COCs in groundwater at Parcel 3 confirm that the 2015 data from outdoor, crawl space, and indoor air sampling still provide a line of evidence demonstrating that vapor intrusion from groundwater has not been occurring.

7 Offsite Investigation Results and Discussion

7.1 East Area

This section documents the findings from the offsite investigation to the east of the site (east of Jenny Lind Road and south of Ingersoll Avenue). The investigation was performed during the weeks of June 17, 2024, and June 24, 2024, and included drilling of six soil borings (HP-27 through HP-32), installation of six temporary wells (HP-27 through HP-32), and installation of three permanent monitoring wells (MW-210 through MW-212). Permanent monitoring well installation took place during the weeks of June 24, 2024, and July 15, 2024. Monitoring well development took place between June and November 2024. The investigation activities summarized in this section were completed in accordance with the East Plume Investigation Work Plan approved by ADEQ on July 5, 2022, and after receipt of an executed property access agreement dated March 18, 2024. The locations of soil borings, temporary and permanent monitoring wells are shown in Figure 7.

Lithology and Hydrogeology

The lithology encountered within the East Area consists predominantly of silty clays and clayey silts extending from the surface to depths ranging from 12 to 24 feet bgs with occasional clayey sand or sandy clay (e.g., HP-29). This is underlain by a sandy and/or gravel zone with silt/clay to depths ranging from 21-27 feet bgs which correlates to the BTZ, which varies from 3 feet thick at HP-30 to 7 feet thick at HP-32. Below the BTZ, all borings encountered a shale or weathered shale bedrock. The top of shale bedrock was encountered at depths ranging from 21 (HP-27) to 27 (HP-29 through HP-32) feet bgs. Well construction and boring logs from this investigation are provided in Appendix H.

Temporary monitoring wells were installed at boring locations HP-27 through HP-32 to facilitate groundwater sampling and determine the placement of permanent monitoring wells within the investigation area. Static water level measurements collected from temporary well locations ranged from 12.01 feet below top of casing (btoc) at HP-32 to 19.44 feet btoc at HP-30.

Groundwater Analytical

Groundwater sample results collected from temporary monitoring well locations were reported with TCE concentrations above the RADD RAL of 5 µg/L at only one location, HP-31 at 16.6 µg/L. After installation of permanent monitoring wells MW-210, MW-211, and MW-212, TCE was detected above the RAL in only MW-211 at a concentration of 35 µg/L. Water samples collected from all other temporary and permanent wells were non-detect for Site COCs.

Analytical reports from this investigation are included in Appendix B and a summary of results is provided in Table 7.

7.2 South Area

This section documents the findings from the offsite investigation to the south of the site on the Harmon Property. The investigation was performed during the weeks of June 17, 2024 and June 24, 2024, and included drilling of four soil borings (HP-33 through HP-35 and HP-50), installation of four temporary well (HP-33 through HP-35 and HP-50) and installation of three monitoring wells (MW-208, MW-209 and MW-213). Permanent monitoring well installation took place during the weeks of June 24, 2024, and September 23, 2024. Monitoring well development took place between June and September 2024. The investigation activities summarized in this section were completed in accordance with the approved South Plume Investigation Work Plan approved by ADEQ on July 5, 2022, and after receipt of an executed property access agreement dated March 3,2020. The locations of soil borings, temporary and permanent monitoring wells are shown in Figure 8.

Lithology and Hydrogeology

The lithology encountered within the South Area consists predominantly of silty clays and clayey silts extending from the surface to depths ranging from 16 to 24 feet bgs, with more coarse-grained intervals being encountered occasionally (e.g., Silty Sand in HP-35 observed from 4 to 8 feet bgs). This is underlain by a sandy and/or gravel zone with silt/clay from depths ranging from 24 to 28 feet bgs, which correlates to the BTZ, which varies from two feet thick at HP-33 to 12.5 feet thick at HP-35. Below the BTZ, all borings encountered a shale or weathered shale bedrock. The top of shale bedrock was encountered at depths ranging from 30 (HP-33 and HP-34) to 36.5 (HP-35) feet bgs. Well construction and boring logs from this investigation are provided in Appendix H.

Temporary monitoring wells were installed at boring locations HP-33, HP-34, HP-35 and HP-50 to facilitate groundwater sampling and determine the placement of permanent monitoring wells within the investigation area. Static water level measurements collected from temporary well locations ranged from 19.32 feet btoc at HP-34 to 27.85 feet btoc at HP-35.

Groundwater Analytical

Groundwater analytical results collected from temporary monitoring well locations indicated TCE concentrations above the RADD RAL of 5 µg/L at only one location, HP-50 at 12.1 µg/L. Water samples collected from all other temporary and permanent wells were non-detect for Site COCs.

Analytical reports from this investigation are included in Appendix B and a summary of results is provided in Table 7.

7.3 Southwest Area

This section documents the findings from the investigation to the southwest of the site on the 1201 Geren Road property and along the Geren Road right-of-way (ROW). This investigation was conducted during the week of June 17, 2024, and included drilling of six soil borings (HP-36 through HP-41), installation of six temporary well (HP-36 through HP-41) and installation of one

permanent monitoring well installation (MW-207). Permanent monitoring well installation and well development took place during the week of July 15, 2024. The investigation activities summarized in this section were completed in accordance with the approved South Plume Investigation Work Plan approved by ADEQ on July 5, 2022, and the November 24, 2023, and after receipt of an executed property access agreement dated December 22, 2023. The locations of soil borings, temporary and permanent monitoring wells are shown in Figure 9.

Lithology and Hydrogeology

The lithology encountered within the southwest area consisted predominantly of clayey silts and silty clays extending from the surface to depths ranging from 8-12 feet bgs. At boring HP-41, a sandy gravel was observed extending from one to three feet bgs. Shallow fine-grained soils were underlain by a zone of mixed sands, silts, and gravels ranging to depths of 12-15 feet. This unit correlates with the BTZ and varied in thickness from two feet thick at HP-36 to five feet thick at HP-40. At HP-37, located along the Geren Road ROW, no soils were observed that correlated to the BTZ prior to termination of the boring at the bedrock interface. The top of shale bedrock was encountered at depths ranging from depths of 10 (HP-36 and HP-37) to 20 feet bgs (HP-39). The depth to shale bedrock generally decreases to the southwest towards HP-36 and increases to the southeast towards HP-39. Well construction and soil boring logs from this investigation are provided in Appendix H.

Temporary monitoring wells were installed at boring locations HP-36 through HP-41 to facilitate groundwater sampling and determine the placement of a permanent monitoring well to the South of the Geren Road ROW. Static water level measurements collected from temporary well locations ranged from 1.99 feet btoc at HP-38 to 11.34 feet btoc at HP-39.

Groundwater Analytical

Groundwater analytical results collected from temporary monitoring well locations indicated TCE concentrations above the RADD RAL of 5 µg/L at HP-36 (6.59 µg/L) and HP-40 (28.5 µg/L). TCE was detected above the RAL in newly installed monitoring well MW-207, located adjacent to Highway 271 south of Geren Road, with a concentration of 26 µg/L.

Analytical reports from this investigation are included in Appendix B and a summary of results is provided in Table 7.

8 Summary and Conclusions

Ramboll performed the semi-annual, annual groundwater, and indoor air monitoring events in April and October 2024. The monitoring events were conducted to collect groundwater and air samples for analytical testing for VOCs in accordance with the RGWMP to assess the nature and extent of groundwater impacts and effectiveness of on-going remediation programs.

The 2024 annual groundwater monitoring event was completed in October 2024. The groundwater flow conceptual Site model can be categorized as three primary plume fronts with distinct characteristics (i.e., North Plume, East Plume and South Plume). The results of the annual groundwater monitoring event for each plume indicate the following:

- The North Plume is characterized by:
  - A north-northeast potentiometric gradient that is flat in the south portion of the North Plume but steepens to the north-northeast.
  - Analytical data, plume stability tests, and the on-going remediation through the 2018 ISCR program support the conclusion that the North Plume is stable.
  - Previous injections in 2015 and 2018 have successfully established a reducing environment that still exists and is capable of complete reductive dechlorination and abiotic degradation of Site COCs.
  - Groundwater analyzed from monitoring wells within the North Plume treatment area have shown TCE reduction with temporary cDCE and VC increases and detectable concentrations of ethene and ethane.
  - An ISCR treatment area is planned for installation in 2025 in the area of previous North Plume injections. This new injection program is anticipated to maintain control of the leading front of the North Plume and the previously established enhanced reductive dechlorination zone.
- The East Plume is characterized by:
  - A relatively flat easterly potentiometric gradient.
  - Permanent monitoring wells MW-210 through MW-212 were installed in the offsite property East of Jenny Lind Rd. TCE was non-detect during the October 2024 monitoring event at MW-210 and MW-212; however, TCE was detected above the RAL in MW-211 at a concentration of 35 µg/L. These offsite wells will act as plume boundary monitoring wells downgradient of the expanded East Plume treatment area.
  - The treatment area within the southeastern portion of the East Plume had a limited scale injection program installed in 2018. Evidence of remediation of Site COCs has been observed in water collected from down-gradient monitoring well TMW-34, which shows transformation of biogeochemical parameters and detection of TCE bioremediation breakdown products.
  - Previous injections within the northeastern portion of the East Plume in 2019 have successfully established a reducing environment that still exists and is

capable of complete reductive dechlorination and abiotic degradation of Site COCs.

- Concentrations within the East Plume have been steadily increasing and plume stability tests demonstrate a potentially eastward expanding plume. An East Plume ISCR treatment area was installed in 2024 across the length of the eastern side of the onsite building adjacent to Jenny Lind Road. Analytical results from monitoring wells adjacent to this injection line have demonstrated remedial influence from the injection program, even if limited time had elapsed since its installation and the October 2024 sampling event.

- The South Plume is characterized by:
  - A relatively flat southerly potentiometric gradient that eventually fans out toward the southeast and southwest.
  - TCE concentrations within the source area remain relatively consistent with some historical fluctuation in the magnitude of detections.
  - Permanent monitoring wells MW-207, MW-208, MW-209 and MW-213 were installed to the south of the site along the Geren Road ROW and on the Harmon Property. TCE was non-detect during the October 2024 monitoring event at MW-208, MW-209, and MW-213; however, TCE was detected above the RAL in MW-207 at 26 µg/L. These offsite wells will act as plume boundary monitoring wells for the South plume area during subsequent sampling events.
  - Previous injections in 2018 have successfully established a reducing environment that still exists and is capable of complete reductive dechlorination and abiotic degradation of Site COCs.
  - Previous injections in 2020 have successfully established a reducing environment that still exists and is capable of complete reductive dechlorination and abiotic degradation of Site COCs.
  - Groundwater analyzed from monitoring wells within the South Plume treatment area have shown TCE reduction with a recent increase in cDCE and detectable concentrations of ethane. It is anticipated that the recent increase in cDCE is a result of ongoing TCE reduction in groundwater and the increase will only be temporary, as observed in other treatment areas.
  - Plume stability tests along the leading edge of the South Plume demonstrates a potentially expanding plume toward the south and southwest. Whirlpool is developing a remediation work plan for the South Plume that will propose an implementation plan for an ISCR treatment area south of the onsite building. This work plan will be submitted under separate cover and is anticipated to be submitted within first quarter of 2025.

Vapor intrusion monitoring continues to identify that risk estimates for vapor intrusion from the groundwater plume in the neighborhood are below the ADEQ's RMLs of 10^{-4} and 1 for cumulative cancer risk and non-cancer hazards, respectively.

The indoor air data indicate a potential complete exposure pathway due to vapor intrusion into the building. Of the detected constituents, only TCE exceeded the respective conservative indoor air screening level based on a HI of 0.1; however, cumulative risk estimates for the onsite worker were below or within the ADEQ's acceptable range of non-cancer hazard and cancer target values. These results do not indicate health risks from indoor exposures under current operating conditions.

The investigation and monitoring activities at the Site have not identified any complete exposure pathways in the residential area (i.e., direct exposure, consumption, or vapor intrusion). Given the current deed restrictions for the Whirlpool property and impacted offsite properties, there is no unacceptable risk to human health or the environment. Deed restrictions precluding the use of groundwater and access agreements to facilitate future investigation or monitoring, if required, apply where groundwater impacts have been characterized in the residential area.

Monitoring at the Site will continue in accordance with the RGWMP with the next groundwater monitoring event planned to occur in Spring 2025.

9 References

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Tables

TABLE 1
CONSTITUENTS OF CONCERN AND RADD GROUNDWATER REMEDIAL ACTION LEVELS
Whirlpool Facility - Fort Smith, Arkansas

Constituent of Concern	Remedial Action Level (µg/L)[1]
Acetone	12,000[2]
Benzene	5.0
Bromodichloromethane	80
Bromoform	80
Bromomethane	7.0[2]
2-Butanone	4,900[2]
Carbon Disulfide	720[2]
Carbon Tetrachloride	5.0
Chlorobenzene	100
Chloroethane	21,000[2]
Chloroform	80
Chloromethane	190[2]
Dibromochloromethane	80
1,1-Dichloroethane	2.4[2]
1,2-Dichloroethane	5.0
1,1-Dichloroethene	7.0
cis-1,2-Dichloroethene	70
trans-1,2-Dichloroethene	100
1,2-Dichloropropane	5.0
1,3-Dichloropropene	0.41[2]
Ethylbenzene	700
2-Hexanone	34[2]
4-methyl-2-pentanone	1,000[2]
Methylene chloride	5.0
Styrene	100
1,1,2,2-Tetrachloroethane	0.066[2]
Tetrachloroethene (PCE)	5.0
Toluene	1,000
1,1,1-Trichloroethane	200
1,1,2-Trichloroethane	5.0
Trichloroethene (TCE)	5.0
Vinyl chloride	2.0
Xylenes (total)	10,000

Notes:
RADD = Remedial action decision document
µg/L = Micrograms per liter
(1) = Maximum Contamination Level, or MCL (USEPA, May 2013)
(2) = USEPA Tapwater Screening Level (No applicable MCL)

TABLE 2
REVISED GROUNDWATER MONITORING PLAN WELL NETWORK
Whirlpool Facility - Fort Smith, Arkansas

North Plume Wells			
MW-39R*	MW-58R	MW-194*	TMW-10
MW-40R*	MW-60R*	MW-195*	TMW-11
MW-46R	MW-61R*	MW-196*	
MW-50R*	MW-62R*	RW-69	
MW-55R*	MW-63R*	IW-73	
MW-56R	MW-68*	IW-77	
MW-57R	MW-82	IW-78	

East Plume Wells			
MW-87	MW-96*	MW-99*	MW-185
MW-89	MW-97*	MW-183R*	
MW-91	MW-98*	MW-184*	

South Plume Wells			
MW-22*	MW-83	MW-189	ITMW-9
MW-24	MW-84	MW-190	ITMW-10
MW-25R	MW-93	MW-191	ITMW-18
MW-26*	MW-95	MW-192	ITMW-19
MW-27*	MW-182	ITMW-1R	ITMW-20*
MW-28*	MW-186	ITMW-2R*	ITMW-21
MW-29*	MW-187	ITMW-5	
MW-38	MW-188	ITMW-7	

Notes:

* denotes a plume boundary well

TABLE 3
MONITORING WELL INSPECTION
Whirlpool Facility - Fort Smith, Arkansas

Well ID	October 2024 Well Condition and Notes	Comments
ITMW-1R	missing 3 bolts	NA
ITMW-2R	missing 1 bolt	NA
ITMW-4	no issues	NA
ITMW-5	no issues	NA
ITMW-6	no issues	NA
ITMW-7	no issues	NA
ITMW-9	no issues	NA
ITMW-10	no issues	NA
ITMW-11	missing 3 bolts	NA
ITMW-12R	no issues	NA
ITMW-15	missing 3 bolts	NA
ITMW-16	missing J plug	NA
ITMW-18	missing 1 bolt	NA
ITMW-19	no issues	NA
ITMW-20	no issues	NA
ITMW-21	no issues	NA
IW-72	no issues	NA
IW-73	no issues	NA
IW-74	no issues	NA
IW-75	no issues	NA
IW-76	no issues	NA
IW-77	no issues	NA
IW-78	no issues	NA
IW-79	no issues	NA
IW-80	no issues	NA
MW-22	no issues	NA
MW-23	missing 3 bolts	NA
MW-24	missing 3 bolts	NA
MW-25	missing 3 bolts	NA
MW-26	no issues	NA
MW-27	missing 3 bolts	NA
MW-28	no issues	NA
MW-29	missing 2 bolts	NA
MW-30	no issues	NA
MW-34R	no issues	NA
MW-35R	no issues	NA
MW-36R	no issues	NA
MW-37	missing 1 bolt	NA
MW-38	missing 2 bolts	NA
MW-39R	no issues	NA
MW-40R	no issues	NA
MW-41R	no issues	NA
MW-46R	no issues	NA
MW-50R	no issues	NA
MW-55R	no issues	NA
MW-56R	no issues	NA
MW-57R	no issues	NA
MW-58R	no issues	NA
MW-60R	no issues	NA
MW-61R	no issues	NA
MW-62R	no issues	NA
MW-63R	no issues	NA
MW-65R	no issues	NA
MW-68	no issues	NA
MW-70	no issues	NA
MW-71	no issues	NA
RW-1	no issues	NA
RW-69	no issues	NA
MW-81	no issues	NA
MW-82	no issues	NA
MW-83	missing 3 bolts	NA
MW-84	missing 3 bolts	NA
MW-85R	missing 1 bolt	NA
MW-87	no issues	NA
MW-88	needs new J plug	NA
MW-89	no issues	NA
MW-90	no issues	NA
MW-91	no issues	NA
MW-92	no issues	NA
MW-93	no issues	NA
MW-94	missing bolts	NA
MW-95	no issues	NA

Well ID	October 2024 Well Condition and Notes	Comments
MW-96	no issues	NA
MW-97	no issues	NA
MW-98	no issues	NA
MW-99	no issues	NA
MW-172	no bolts	NA
MW-173	no issues	NA
MW-174	no issues	NA
MW-175	no issues	NA
MW-176	no issues	NA
MW-178	missing 3 bolts	NA
MW-179	missing 3 bolts	NA
MW-180	no issues	NA
MW-181	no issues	NA
MW-182	missing 1 bolt	NA
MW-183R	no issues	NA
MW-184	no issues	NA
MW-185	no issues	NA
MW-186	no issues	NA
MW-187	no issues	NA
MW-188	no issues	NA
MW-189	no issues	NA
MW-190	no issues	NA
MW-191	no issues	NA
MW-192	no issues	NA
MW-193	no issues	NA
MW-194	no issues	NA
MW-195	no issues	NA
MW-196	no issues	NA
MW-197	no issues	NA
MW-198	no issues	NA
MW-199	no issues	NA
MW-200	no issues	NA
MW-201	no issues	NA
MW-202	no issues	NA
MW-203	no issues	NA
MW-204	no issues	NA
MW-205	no issues	NA
MW-206	no issues	NA
MW-207	no issues	NA
MW-208	no issues	NA
MW-209	no issues	NA
MW-210	no issues	NA
MW-211	no issues	NA
MW-212	no issues	NA
MW-213	no issues	NA
MW-214	no issues	NA
MW-215	no issues	NA
IW-101	no issues	NA
IW-132	no issues	NA
IW-134	no issues	NA
IW-147	no issues	NA
IW-115	no issues	NA
TMW-10	no issues	NA
TMW-11	no issues	NA
TMW-12	no issues	NA
TMW-14	no issues	NA
TMW-16	no issues	NA
TMW-19	no issues	NA
TMW-20	no issues	NA
TMW-21	no issues	NA
TMW-22R	no issues	NA
TMW-23	no issues	NA
TMW-24	no issues	NA
TMW-25	no issues	NA
TMW-26	no issues	NA
TMW-27	no issues	NA
TMW-29	no issues	NA
TMW-30	no issues	NA
TMW-32	no issues	NA
TMW-34	no issues	NA
TMW-35	no issues	NA
TMW-36	no issues	NA
TMW-36B	no issues	NA

Notes:

NA: Not Applicable
* Repaired November 2023

RAMBOLL

TABLE 4
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (feet)	Ground Surface (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Top of Screen Depth	Bottom of Screen Depth	Screened Interval (feet)	Maximum Static Water Elevation (Since Oct 2012)	Maximum Elevation Date	Minimum Static Water Elevation (Since Oct 2012)	Static Water Elevation (feet)			
														4/15/2024		10/7/2024	
	Easting (feet)	Northing (feet)												DTW	GW Elevation	DTW	GW Elevation
ITMW-1[4]	591383	368913	476.93	NA	460.43	446.68	13.75	16.50	30.25	16.50 - 30.25	463.92	10/5/2015	460.53	NA	NA	NA	NA
ITMW-1R	591378	368921	473.82	NA	NA	NA	10.00	NA	NA	19.00 - 29.00	NA	NA	NA	10.15	463.67	12.22	461.60
ITMW-2[4]	591189	369021	474.97	NA	462.22	447.77	14.45	12.75	27.20	12.75 - 27.20	465.92	10/14/2013	461.87	NA	NA	NA	NA
ITMW-2R	591244	369072	474.84	NA			5.00			26.50-31.50	NA	NA	NA	12.68	462.16	12.56	462.28
ITMW-3[4]	591306	369075	474.72	NA	464.07	449.27	14.80	10.65	25.45	10.65 - 25.45	467.17	10/14/2013	460.27	NA	NA	NA	NA
ITMW-4	591251	368208	478.19	NA	459.99	445.99	14.00	18.20	32.20	18.20 - 32.20	466.85	1/12/2015	459.49	NA	NA	18.29	459.90
ITMW-5	590982	368205	474.29	NA	454.39	444.64	9.75	19.90	29.65	19.90 - 29.65	460.31	10/18/2021	450.13	14.4	459.89	14.36	459.93
ITMW-6	590923	367970	483.04	NA	461.39	446.89	14.50	21.65	36.15	21.65 - 36.15	466.20	1/12/2015	454.06	NA	NA	23.26	459.78
ITMW-7	590546	368323	481.95	NA	460.05	445.05	15.00	21.90	36.90	21.90 - 36.90	463.65	7/20/2015	457.98	20.07	461.88	20.66	461.29
ITMW-9	591256	368146	481.90	NA	461.95	448.45	13.50	19.95	33.45	19.95 - 33.45	463.29	10/5/2015	455.60	NA	NA	22.11	459.79
ITMW-10	590978	368157	480.84	NA	458.19	447.24	10.95	22.65	33.60	22.65 - 33.60	463.17	7/20/2015	457.64	20.97	459.87	20.95	459.89
ITMW-11	590978	369040	474.07	NA	458.82	445.37	13.45	15.25	28.70	15.25 - 28.70	465.82	10/1/2012	459.11	11.23	462.84	10.89	463.18
ITMW-12[4]	590998	369007	476.67	NA	461.67	446.67	15.00	15.00	30.00	15.00 - 30.00	466.49	1/12/2015	462.07	NA	NA	NA	NA
ITMW-12R	591015	369004	474.32	NA	NA	NA	10.00	NA	NA	20.00 - 30.00	NA	NA	NA	11.76	462.56	10.86	463.46
ITMW-13[4]	591047	369052	477.79	NA	463.79	448.79	15.00	14.00	29.00	14.00 - 29.00	465.10	7/20/2015	462.09	NA	NA	NA	NA
ITMW-14[4]	591098	369056	477.30	NA	462.50	447.80	14.70	14.80	29.50	14.80 - 29.50	468.88	10/14/2013	461.08	NA	NA	NA	NA
ITMW-15	590944	369043	474.50	NA	459.50	444.50	15.00	15.00	30.00	15.00 - 30.00	465.41	10/1/2012	462.36	11.6	462.9	10.92	463.58
ITMW-16	590967	369100	478.79	NA	461.79	446.79	15.00	17.00	32.00	17.00 - 32.00	468.22	1/12/2015	462.49	13.54	462.87	13.30	465.49
ITMW-17	590864	369051	477.90	NA	461.90	446.90	15.00	16.00	31.00	16.00 - 31.00	466.20	10/14/2013	462.17	NA	NA	NA	NA
ITMW-18	590976	368955	473.55	NA	458.55	443.55	15.00	15.00	30.00	15.00 - 30.00	465.03	7/20/2015	458.99	11.06	462.49	10.80	462.75
ITMW-19	590890	368961	476.25	NA	460.25	445.25	15.00	16.00	31.00	16.00 - 31.00	465.94	1/12/2015	462.15	13.57	462.68	13.40	462.85
ITMW-20	590370	369042	477.87	NA	463.87	448.87	15.00	14.00	29.00	14.00 - 29.00	465.23	7/20/2015	462.80	14.2	463.67	14.65	463.22
ITMW-21	590629	368898	476.52	NA	460.52	445.52	15.00	16.00	31.00	16.00 - 31.00	465.12	7/20/2015	461.27	13.09	463.43	13.30	463.22
MW-22	591853	368913	473.93	NA	459.93	444.93	15.00	14.00	29.00	14.00 - 29.00	464.24	10/5/2015	460.86	12.3	461.63	11.41	462.52
MW-23	590892	369238	475.80	NA	461.80	446.80	15.00	14.00	29.00	14.00 - 29.00	465.50	1/12/2015	462.40	12.85	462.95	12.54	463.26
MW-24	590876	369134	476.39	NA	458.39	443.39	15.00	18.00	33.00	18.00 - 33.00	465.35	7/20/2015	462.41	13.43	462.96	13.22	463.17
MW-25[4]	590743	369006	476.89	NA	459.89	444.89	15.00	17.00	32.00	17.00 - 32.00	465.37	7/20/2015	462.46	NA	NA	NA	NA
MW-25R	590747	368986	472.59	NA	NA	NA	5.00	NA	NA	25.00 - 30.00	NA	NA	NA	9.93	462.66	9.42	463.17
MW-26	590566	369230	478.05	NA	459.55	444.55	15.00	18.50	33.50	18.50 - 33.50	465.56	7/20/2015	463.10	14.16	463.89	14.46	463.59
MW-27	591077	369226	475.42	NA	460.42	445.42	15.00	15.00	30.00	15.00 - 30.00	465.33	7/20/2015	462.39	12.56	462.86	10.81	464.61
MW-28	591324	369209	470.49	NA	457.49	442.49	15.00	13.00	28.00	13.00 - 28.00	465.20	7/20/2015	457.49	7.97	462.52	13.00	457.49
MW-29	590181	368371	474.91	NA	458.91	443.91	15.00	16.00	31.00	16.00 - 31.00	468.30	1/12/2015	461.94	11.47	463.44	12.57	462.34
MW-30	590579	368432	478.99	NA	457.99	442.99	15.00	21.00	36.00	21.00 - 36.00	467.41	1/12/2015	461.81	16.38	462.61	16.86	462.13
MW-31[4]	590824	369286	476.03	NA	458.53	448.53	10.00	17.50	27.50	17.50 - 27.50	464.73	10/13/2014	460.52	NA	NA	NA	NA
MW-31R	590823	369288	475.73	NA	455.73	445.73	10.00	20.00	30.00	20.00-30.00	465.13	7/20/2015	463.93	NM	NA	NM	NA
MW-32[1,4]	590909	369279	475.68	NA	458.68	448.68	10.00	17.00	27.00	17.00 - 27.00	464.74	10/13/2014	462.59	NA	NA	NA	NA
MW-32R	590908	369282	475.50	NA	455.00	445.00	10.00	20.50	30.50	20.50-30.50	465.09	7/20/2015	463.94	NM	NA	NM	NA
MW-33[1,4]	590994	369276	474.88	NA	459.08	449.08	10.00	15.80	25.80	15.80 - 25.80	464.76	10/13/2014	462.50	NA	NA	NA	NA
MW-33R	590993	369277	474.60	NA	455.60	445.60	10.00	19.00	29.00	19.00 - 29.00	465.19	7/20/2015	463.97	NM	NA	NM	NA
MW-34[1,4]	590932	369336	474.29	NA	454.79	444.79	10.00	19.50	29.50	19.50 - 29.50	464.81	10/13/2014	462.68	NA	NA	NA	NA
MW-34R	590911	369339	475.05	NA	453.55	446.55	7.00	21.50	28.50	21.50 - 28.50	466.25	7/20/2015	463.15	11.9	463.146	11.81	463.24
MW-35R[3]	590994	369333	473.87	NA	454.37	444.37	10.00	19.50	29.50	19.50 - 29.50	465.32	7/20/2015	462.33	10.95	462.92	10.77	463.10
MW-36[1,4]	591079	369329	473.30	NA	461.30	446.30	15.00	12.00	27.00	12.00 - 27.00	464.85	10/13/2014	462.71	NA	NA	NA	NA
MW-36R	591078	369328	472.98	NA	452.98	443.98	9.00	20.00	29.00	20.00-29.00	465.27	7/20/2015	462.25	10.15	462.828	10.35	462.63
MW-37	590972	369028	473.57	NA	458.57	443.57	15.00	15.00	30.00	15.00 - 30.00	465.39	7/20/2015	462.37	10.75	462.82	10.50	463.07
MW-38	590960	369040	474.60	NA	459.60	444.60	15.00	15.00	30.00	15.00 - 30.00	465.39	7/20/2015	462.35	11.78	462.82	11.54	463.06
MW-39[1,4]	590833	369421	475.46	NA	455.96	445.96	10.00	19.50	29.50	19.50 - 29.50	465.00	1/12/2015	461.61	NM	NA	NM	NA
MW-39R	590840	369429	475.41	NA	450.91	445.91	5.00	24.50	29.50	24.50 - 29.50	466.10	7/20/2015	462.91	12.5	462.91	12.37	463.04
MW-40[1,4]	590998	369622	473.35	NA	455.60	445.60	10.00	17.75	27.75	17.75 - 27.75	464.76	10/13/2014	455.04	NA	NA	NA	NA
MW-40R	591013	369624	473.09	NA	454.59	444.59	10.00	18.50	28.50	18.50 - 28.50	465.29	7/20/2015	462.31	10.1	462.99	9.98	463.11
MW-41[1,4]	591061	369469	472.09	NA	453.34	443.34	10.00	18.75	28.75	18.75 - 28.75	464.45	10/13/2014	462.63	NA	NA	NA	NA
MW-41R	591061	369478	471.84	NA	453.84	443.84	10.00	18.00	28.00	18.00 - 28.00	465.13	7/20/2015	462.21	9	462.84	8.85	462.99
MW-46R	591472	369609	465.79	NA	449.19	444.19	5.00	16.60	21.60	16.60 - 21.60	464.88	7/20/2015	457.50	3.02	462.765	2.91	462.88
MW-50[4]	591415	370213	463.11	NA	455.11	445.11	10.00	8.00	18.00	8.00 - 18.00	459.81	10/13/2014	453.92	NA	NA	NA	NA
MW-50R	591415	370210	462.65	NA	449.65	444.65	5.00	13.00	18.00	13.00 - 18.00	460.15	10/7/2024	452.67	4.95	457.698	2.50	460.15
MW-55[1,4]	591291	369893	465.50	NA	450.00	445.00	5.00	15.50	20.50	15.50 - 20.50	463.06	10/14/2013	461.59	NA	NA	NA	NA

TABLE 4
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (feet)	Ground Surface (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Top of Screen Depth	Bottom of Screen Depth	Screened Interval (feet)	Maximum Static Water Elevation (Since Oct 2012)	Maximum Elevation Date	Minimum Static Water Elevation (Since Oct 2012)	Static Water Elevation (feet)			
														4/15/2024		10/7/2024	
	Easting (feet)	Northing (feet)												DTW	GW Elevation	DTW	GW Elevation
MW-55R	591291	369895	465.30	NA	446.30	444.30	2.00	19.00	21.00	19.00 - 21.00	465.06	7/20/2015	462.02	2.2	463.098	2.29	463.01
MW-56[1,4]	591687	369730	463.22	NA	448.72	443.72	5.00	14.50	19.50	14.50 - 19.50	462.55	10/13/2014	456.49	NA	NA	NA	NA
MW-56R	591687	369732	463.17	NA	445.17	443.17	2.00	18.00	20.00	18.00 - 20.00	462.47	7/20/2015	459.03	2.1	461.072	2.99	460.18
MW-57[1,4]	591690	369811	462.90	NA	448.90	443.90	5.00	14.00	19.00	14.00 - 19.00	461.14	4/13/2015	457.65	NA	NA	NA	NA
MW-57R	591693	369806	462.92	NA	447.92	442.92	5.00	15.00	20.00	15.00 - 20.00	462.26	7/20/2015	458.68	1.87	461.05	3.97	458.95
MW-58[1,4]	591570	369907	462.71	NA	450.21	445.21	5.00	12.50	17.50	12.50 - 17.50	462.71	7/28/2014	461.01	NA	NA	NA	NA
MW-58R	591571	369898	465.98	NA	451.98	446.98	5.00	14.00	19.00	14.00 - 19.00	464.68	7/20/2015	461.64	3.45	462.53	3.42	462.56
MW-60[1,4]	591710	370193	460.85	NA	448.85	443.85	5.00	12.00	17.00	12.00 - 17.00	458.07	10/13/2014	452.38	NA	NA	NA	NA
MW-60R	591710	370193	460.66	NA	450.16	445.16	5.00	10.50	15.50	10.50 - 15.50	459.65	10/18/2021	455.11	4.85	455.81	1.75	458.91
MW-61[1,4]	592003	370175	459.61	NA	449.11	444.11	5.00	10.50	15.50	10.50 - 15.50	453.32	7/28/2014	448.21	NA	NA	NA	NA
MW-61R	591999	370175	459.31	NA	448.81	443.81	5.00	10.50	15.50	10.50 - 15.50	456.38	10/5/2015	451.85	4.9	454.41	5.60	453.71
MW-62[1,4]	591791	369569	464.33	NA	448.83	443.83	5.00	15.50	20.50	15.50 - 20.50	464.03	1/12/2015	456.68	NA	NA	NA	NA
MW-62R	591790	369572	464.19	NA	449.19	444.19	5.00	15.00	20.00	15.00 - 20.00	461.72	7/20/2015	457.49	5.4	458.79	5.05	459.14
MW-63[1,4]	591994	369560	463.87	NA	447.87	442.87	5.00	16.00	21.00	16.00 - 21.00	461.43	10/13/2014	455.05	NA	NA	NA	NA
MW-63R	591993	369559	463.94	NA	448.94	443.94	5.00	15.00	20.00	15.00 - 20.00	462.29	7/20/2015	457.01	5.2	458.74	6.93	457.01
MW-65R	590980	369335	473.91	NA	454.41	444.41	10.00	19.50	29.50	19.50 - 29.50	473.57	1/12/2015	462.38	10.95	462.96	10.82	463.09
MW-66	592280	369855	462.05	NA	449.45	444.45	5.00	12.60	17.60	12.60 - 17.60	460.24	7/20/2015	446.54	NM	NA	NM	NA
MW-67	592291	370027	459.01	NA	449.41	444.41	5.00	9.60	14.60	9.60 - 14.60	458.42	7/28/2014	449.31	NM	NA	NM	NA
MW-67R	592291	370022	459.16	NA	447.16	442.16	5.00	12.00	17.00	12.00 - 17.00	458.96	7/20/2015	456.44	NM	NA	NM	NA
MW-68	591173	369815	469.81	NA	455.81	445.81	10.00	14.00	24.00	14.00 - 24.00	465.23	7/20/2015	462.36	6.7	463.11	6.62	463.19
RW-69[3]	591170	369678	470.89	NA	455.89	445.89	10.00	15.00	25.00	15.00 - 25.00	464.97	7/20/2015	462.00	8.2	462.69	8.11	462.78
MW-70	591162	369693	471.53	NA	NA	NA	NA	NA	NA	NA	465.33	7/20/2015	462.12	8.5	463.03	8.40	463.13
MW-71	591170	369695	471.35	NA	NA	NA	NA	NA	NA	NA	465.35	7/20/2015	462.36	8.3	463.05	8.21	463.14
IW-72[3]	591056	369590	471.65	NA	456.65	446.65	10.00	15.00	25.00	15.00 - 25.00	465.85	4/15/2024	462.11	5.8	465.85	8.70	462.95
IW-73	591060	369503	471.48	NA	NA	NA	NA	NA	NA	NA	465.29	7/20/2015	462.38	8.5	462.98	8.36	463.12
IW-74[2,3]	591058	369545	472.06	NA	457.06	447.06	10.00	15.00	25.00	15.00 - 25.00	465.26	7/20/2015	462.30	9.15	462.91	9.00	463.06
IW-75	591072	369605	472.17	NA	NA	NA	NA	NA	NA	NA	465.36	7/20/2015	462.37	9.24	462.93	9.01	463.16
IW-76	591050	369426	472.26	NA	NA	NA	NA	NA	NA	NA	465.17	7/20/2015	462.21	9.5	462.76	9.34	462.92
IW-77[2,6]	591027	369380	473.01	NA	453.01	443.01	10.00	20.00	30.00	20.00 - 30.00	465.37	7/20/2015	462.41	10	463.01	9.87	463.14
IW-78	590984	369338	473.49	NA	NA	NA	NA	NA	NA	NA	465.38	7/20/2015	461.77	10.45	463.04	10.40	463.09
IW-79	591018	369335	473.84	NA	NA	NA	NA	NA	NA	NA	465.39	7/20/2015	462.39	10.82	463.02	10.71	463.13
IW-80[2,3]	591047	369343	473.30	NA	453.30	443.30	10.00	20.00	30.00	20.00 - 30.00	465.21	7/20/2015	462.28	10.45	462.85	10.28	463.02
IW-101	590930	369201	475.70	NA	452.80	447.80	5.00	22.90	27.90	22.90 - 27.90	464.66	1/6/2016	462.77	12.93	462.77	12.7	463.00
IW-115	591007	369344	473.41	NA	454.31	449.31	5.00	19.10	24.10	19.10 - 24.10	472.99	4/12/2021	462.38	10.6	462.81	10.43	462.98
IW-129	590989	368977	473.54	NA	448.99	443.99	5.00	24.55	29.55	24.55 - 29.55	463.08	5/12/2014	463.08	NA	NA	NM	NA
IW-130	590924	369186	475.58	NA	452.20	447.28	5.00	23.38	28.30	23.38 - 28.38	463.20	5/12/2014	463.20	NA	NA	NM	NA
IW-131	591006	369339	473.37	NA	453.65	448.65	5.00	19.72	24.72	19.72 - 24.72	463.21	5/12/2014	463.21	NA	NA	NM	NA
IW-132	590835	369040	475.49	NA	NA	NA	5.00	NA	NA	23.00 - 28.00	NA	NA	NA	12.78	462.71	11.66	463.83
IW-134	590885	369037	474.22	NA	NA	NA	5.00	NA	NA	23.00 - 28.00	NA	NA	NA	11.39	462.83	11.23	462.99
IW-147	590782	368993	473.13	NA	NA	NA	5.00	NA	NA	20.00 - 25.00	NA	NA	NA	10.41	462.72	10.20	462.93
MW-81	591039	369406	473.54	NA	453.54	448.54	5.00	20.00	25.00	20.00 - 25.00	465.33	7/20/2015	462.35	10.62	462.92	10.41	463.13
MW-82	590977	369395	473.60	NA	452.60	447.60	5.00	21.00	26.00	21.00 - 26.00	465.35	7/20/2015	462.36	10.68	462.92	10.85	462.75
MW-83	590946	369211	475.48	NA	453.48	448.48	5.00	22.00	27.00	22.00 - 27.00	465.25	7/20/2015	462.32	12.64	462.84	12.44	463.04
MW-84	590882	369194	475.53	NA	451.53	446.53	5.00	24.00	29.00	24.00 - 29.00	466.39	1/6/2016	462.23	12.75	462.78	12.52	463.01
MW-85[4]	590760	369018	474.41	NA	449.41	444.41	5.00	25.00	30.00	25.00-30.00	465.21	7/20/2015	462.24	NA	NA	NA	NA
MW-85R	590769	369015	472.34	NA	NA	NA	5.00	NA	NA	24.50 - 29.50	NA	NA	NA	9.6	462.74	9.50	462.84
MW-86[4]	590767	368995	473.19	NA	450.19	445.19	5.00	23.00	28.00	23.00-28.00	465.10	7/20/2015	462.19	NA	NA	NA	NA
MW-87	592269	368835	470.78	NA	453.78	443.78	10.00	17.00	27.00	17.00 - 27.00	460.91	10/5/2015	457.59	12.75	458.03	11.64	459.14
MW-88	592151	369043	468.89	NA	450.89	440.89	10.00	18.00	28.00	18.00 - 28.00	462.85	10/5/2015	457.69	11.2	457.69	7.97	460.92
MW-89	592357	369059	466.91	NA	451.91	441.91	10.00	15.00	25.00	15.00 - 25.00	459.23	10/5/2015	456.30	10.1	456.81	10.52	456.39
MW-90	592157	369157	466.71	NA	451.71	441.71	10.00	15.00	25.00	15.00 - 25.00	463.26	10/5/2015	458.61	8.1	458.61	5.05	461.66
MW-91	592371	368830	468.90	NA	453.90	443.90	10.00	15.00	25.00	15.00 - 25.00	460.19	10/5/2015	456.33	11.6	457.3	11.93	456.97
MW-92	590778	368921	473.74	NA	453.74	443.74	10.00	20.00	30.00	20.00 - 30.00	465.29	7/20/2015	462.30	10.89	462.85	10.67	463.07
MW-93	590908	368894	477.81	NA	452.81	442.81	10.00	25.00	35.00	25.00 - 35.00	465.12	7/20/2015	462.10	15.18	462.63	14.40	463.41
MW-94	591015	368903	477.86	NA	452.86	442.86	10.00	25.00	35.00	25.00 - 35.00	464.97	7/20/2015	461.93	15.5	462.36	15.2	462.66
MW-95	590981	368821	477.63	NA	452.63	442.63	10.00	25.00	35.00	25.00 - 35.00	465.01	7/20/2015	461.95	15.18	462.45	14.86	462.77

TABLE 4
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (feet)	Ground Surface (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Top of Screen Depth	Bottom of Screen Depth	Screened Interval (feet)	Maximum Static Water Elevation (Since Oct 2012)	Maximum Elevation Date	Minimum Static Water Elevation (Since Oct 2012)	Static Water Elevation (feet)			
														4/15/2024		10/7/2024	
	Easting (feet)	Northing (feet)												DTW	GW Elevation	DTW	GW Elevation
MW-96	592775	369354	457.83	NA	447.83	442.83	5.00	10.00	15.00	10.00 - 15.00	451.84	10/22/2019	448.97	6.6	451.23	8.86	448.97
MW-97	592687	369527	459.43	NA	447.93	442.93	5.00	11.50	16.50	11.50 - 16.50	451.44	10/22/2019	448.41	8.7	450.73	9.01	450.42
MW-98	592840	369198	461.62	NA	446.62	441.62	10.00	15.00	20.00	15.00 - 20.00	451.64	10/22/2019	449.16	11.6	450.02	12.35	449.27
MW-99	592554	368814	466.80	NA	448.30	443.30	5.00	18.50	23.50	18.50 - 23.50	459.89	7/20/2015	455.80	11	455.8	9.71	457.09
MW-172	590858	369002	472.94	NA	454.94	444.94	10.00	18.00	28.00	18.00 - 28.00	465.27	7/20/2015	461.26	10.16	462.78	10.00	462.94
MW-173	591973	369624	463.56	NA	458.56	457.56	1.00	5.00	6.00	5.00 - 6.00	463.41	10/5/2020	457.61	1.5	462.06	2.06	461.50
MW-174	591976	369644	463.45	NA	452.45	451.45	1.00	11.00	12.00	11.00 - 12.00	461.85	5/11/2020	457.67	4.23	459.22	4.48	458.97
MW-175	591603	369655	464.17	NA	450.67	449.67	1.00	13.50	14.50	13.50 - 14.50	464.17	10/22/2019	460.25	2.45	461.72	1.95	462.22
MW-176	591474	369675	465.24	NA	452.24	451.24	1.00	13.00	14.00	13.00 - 14.00	464.66	7/20/2015	461.99	2.55	462.69	2.4	462.84
MW-177	591148	369698	471.50	NA	462.50	461.50	1.00	9.00	10.00	9.00 - 10.00	469.97	1/6/2016	461.78	4.31	467.19	4.85	466.65
MW-178	590973	369232	475.40	NA	468.40	467.40	1.00	7.00	8.00	7.00 - 8.00	472.05	5/2/2016	467.79	5.95	469.45	5.01	470.39
MW-179	590984	369232	475.39	NA	463.39	462.39	1.00	12.00	13.00	12.00 - 13.00	473.98	11/13/2018	462.70	9.78	465.61	4.79	470.60
MW-180	590996	369231	475.32	NA	469.32	468.32	1.00	6.00	7.00	6.00 - 7.00	471.93	5/2/2016	467.30	4.85	470.47	4.84	470.48
MW-181	591156	369695	471.87	NA	465.87	464.87	1.00	6.00	7.00	6.00 - 7.00	469.57	5/11/2020	456.87	2.9	468.97	Dry	NA
MW-182	590403	367900	474.64	NA	453.64	443.64	10.00	21.00	31.00	21.00 - 31.00	461.60	10/5/2015	459.39	14.65	459.992	15.07	459.57
MW-183[4]	592664	369246	462.42	462.87	447.42	442.42	5.00	15.00	20.00	15.00-20.00	452.22	4/25/2017	450.11	NA	NA	NA	NA
MW-183R	592672	369248	462.43	462.67	449.43	444.43	5.00	13.00	18.00	13.00 - 18.00	452.23	10/22/2019	448.68	11.4	451.03	13.02	449.41
MW-184	592646	369023	465.58	NA	446.58	441.58	5.00	19.00	24.00	19.00 - 24.00	458.42	10/5/2015	451.20	9.45	456.127	9.65	455.93
MW-185	592256	367995	473.86	NA	453.86	443.86	10.00	20.00	30.00	20.00 - 30.00	463.49	10/5/2015	458.90	14.5	459.362	14.28	459.58
MW-186	590124	367716	469.80	NA	451.80	441.80	10.00	18.00	28.00	18.00 - 28.00	457.78	4/12/2021	451.25	12.8	457.004	13.39	456.41
MW-187	590249	367588	477.42	NA	453.42	443.42	10.00	24.00	34.00	24.00 - 34.00	459.21	5/2/2016	457.42	18.9	458.52	19.51	457.91
MW-188	590646	367509	481.09	NA	455.09	445.09	10.00	26.00	36.00	26.00 - 36.00	462.10	10/5/2015	459.41	21.35	459.74	21.62	459.47
MW-189	590860	367666	485.50	NA	454.50	444.50	10.00	31.00	41.00	31.00 - 41.00	462.83	10/5/2015	459.41	25.6	459.9	25.66	459.84
MW-190	591325	367745	481.29	NA	454.29	444.29	10.00	27.00	37.00	27.00 - 37.00	463.27	10/5/2015	459.38	21	460.286	21.39	459.90
MW-191	591662	367732	476.85	NA	453.85	443.85	10.00	23.00	33.00	23.00 - 33.00	463.37	10/5/2015	459.27	17.1	459.748	16.98	459.87
MW-192	592078	367679	475.33	NA	454.33	444.33	10.00	21.00	31.00	21.00 - 31.00	463.42	10/5/2015	459.10	15.7	459.627	15.59	459.74
MW-193[4]	592312	370289	455.26	NA	447.76	442.76	5.00	7.50	12.50	7.50-12.50	453.76	5/2/2016	451.25	NA	NA	NA	NA
MW-194	592161	369791	462.47	NA	451.47	441.47	10.00	11.00	21.00	11.00 - 12.00	459.62	10/5/2020	457.03	4.85	457.62	4.19	458.28
MW-195	592185	370025	459.36	NA	446.36	441.36	5.00	13.00	18.00	13.00 - 18.00	458.66	10/22/2019	455.78	2.45	456.91	1.55	457.81
MW-196	592217	370132	457.63	NA	447.63	442.63	5.00	10.00	15.00	10.00 - 15.00	454.92	10/5/2020	452.30	3.97	453.66	NM	NA
MW-197	589986	367744	466.81	NA	NA	NA	10.00	NA	NA	15.00 - 25.00	NA	10/1/2012	NA	11.5	455.312	11.67	455.14
MW-198	590776	368982	473.08	NA	NA	NA	10.00	NA	NA	19.00 - 29.00	NA	10/1/2012	NA	10.38	462.7	10.20	462.88
MW-199	589597	367542	463.09	NA	NA	NA	10.00	NA	NA	12.00 - 22.00	NA	10/1/2012	NA	8.6	454.49	9.19	453.90
MW-200	592704	368850	467.57	NA	NA	NA	10.00	NA	NA	15.20 - 25.20	NA	10/1/2012	NA	10.6	456.97	10.68	456.89
MW-201	591200	367185	481.07	NA	NA	NA	10.00	NA	NA	26.00 - 36.00	NA	10/1/2012	NA	21.3	459.77	21.36	459.71
MW-202	592660	368637	468.16	NA	NA	NA	10.00	NA	NA	14.20 - 24.20	NA	10/1/2012	NA	10.1	458.06	10.18	457.98
MW-203	591032	367411	483.51	NA	NA	NA	5.00	NA	NA	32.00 - 37.00	NA	10/1/2012	NA	23.75	459.76	23.81	459.70
MW-204	590580	367991	481.31	NA	NA	NA	10.00	NA	NA	26.00 - 36.00	NA	10/1/2012	NA	21.06	460.25	21.42	459.89
MW-205	592101	368133	474.66	NA	NA	NA	10.00	NA	NA	10.00 - 20.00	NA	10/1/2012	NA	15.20	459.461	14.94	459.72
MW-206	590376	367378	476.43	NA	NA	NA	10.00	NA	NA	10.00 - 20.00	NA	10/1/2012	NA	17.2	459.229	16.02	460.41
MW-207	589249	367396	457.96	458.16	451.96	441.96	10.00	6.00	16.00	6.00-16.00	NA	NA	NA	NA	NA	5.11	452.85
MW-208	591092	367267	482.54	482.74	460.54	450.54	10.00	22.00	32.00	22.00-32.00	NA	NA	NA	NA	NA	22.59	459.95
MW-209	591789	367482	481.44	481.64	456.44	446.44	10.00	25.00	35.00	25.00-35.00	NA	NA	NA	NA	NA	21.05	460.39
MW-210	592577	368089	471.84	472.04	454.84	444.84	10.00	17.00	27.00	17.00-27.00	NA	NA	NA	NA	NA	12.08	459.76
MW-211	592611	368470	470.96	471.16	455.96	445.96	10.00	15.00	25.00	15.00-25.00	NA	NA	NA	NA	NA	12.33	458.63
MW-212	592867	368645	468.12	468.32	455.12	445.12	10.00	13.00	23.00	13.00-23.00	NA	NA	NA	NA	NA	11.02	457.10
MW-213	591532	367426	482.99	483.45	453.99	443.99	10.00	29.00	39.00	29.00-39.00	NA	NA	NA	NA	NA	22.95	460.04
MW-214	592382	368664	470.05	470.62	451.05	445.05	6.00	19.00	25.00	19.00-25.00	NA	NA	NA	NA	NA	11.85	458.20
MW-215	592355	368447	470.64	471.00	451.64	445.64	6.00	19.00	25.00	19.00-25.00	NA	NA	NA	NA	NA	11.88	458.76
TMW-10	591973	370113	460.75	NA	450.25	445.25	5.00	10.50	15.50	10.50 - 15.50	455.62	10/5/2020	455.11	5.05	455.698	4.11	456.64
TMW-11	591956	370078	460.20	NA	449.70	444.70	5.00	10.50	15.50	10.50 - 15.50	464.13	10/5/2020	462.70	4.15	456.047	3.16	457.04
TMW-12[5]	591873	369860	464.19	461.63	454.19	444.19	10.00	10.00	20.00	10.00 - 20.00	454.55	4/12/2021	453.78	4.4	459.79	5.53	458.66
TMW-13[4]	592083	369870	460.10	460.27	447.10	442.10	5.00	13.00	18.00	13.00-18.00	457.31	10/18/2021	456.89	NA	NA	NA	NA
TMW-14	591873	369736	461.89	462.46	450.89	440.89	10.00	11.00	21.00	11.00 - 21.00	460.36	10/5/2020	459.71	2.4	459.49	3.20	458.69
TMW-15[4]	592032	369683	465.32	465.40	452.32	442.32	10.00	13.00	23.00	13.00-23.00	458.35	10/18/2021	457.98	NA	NA	NA	NA
TMW-16	590180	367791	469.87	469.54	451.87	441.87	10.00	18.00	28.00	18.00 - 28.00	460.24	4/12/2021	453.88	11.65	458.22	12.15	457.72

TABLE 4
SUMMARY OF MONITORING WELL STATIC WATER LEVEL MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Coordinates		TOC Elevation (feet)	Ground Surface (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Top of Screen Depth	Bottom of Screen Depth	Screened Interval (feet)	Maximum Static Water Elevation (Since Oct 2012)	Maximum Elevation Date	Minimum Static Water Elevation (Since Oct 2012)	Static Water Elevation (feet)			
														4/15/2024		10/7/2024	
	Easting (feet)	Northing (feet)												DTW	GW Elevation	DTW	GW Elevation
TMW-17[4]	590856	367810	484.05	483.74	451.55	441.55	10.00	32.50	42.50	32.50-42.50	460.87	10/5/2020	459.89	NA	NA	NA	NA
TMW-18[4]	590672	367598	478.79	478.54	453.79	443.79	10.00	25.00	35.00	25.00-35.00	458.29	10/5/2020	453.53	NA	NA	NA	NA
TMW-19[5]	590841	367571	484.99	485.26	451.99	441.99	10.00	33.00	43.00	33.00 - 43.00	458.43	10/5/2020	453.72	25.2	459.79	25.32	459.67
TMW-20	592210	369929	460.57	460.27	449.07	442.07	7.00	11.50	18.50	11.50 - 18.50	460.98	10/5/2020	458.66	3.45	457.12	2.72	457.85
TMW-21	592082	369959	460.01	460.26	450.01	440.01	10.00	10.00	20.00	10.00 - 20.00	457.59	4/25/2017	457.59	1.5	458.58	2.80	457.21
TMW-22[4]	591985	369997	460.82	461.05	448.82	441.82	7.00	12.00	19.00	12.00-19.00	461.47	10/22/2019	458.69	NA	NA	NA	NA
TMW-22R	591992	369990	460.71	461.15	447.21	442.21	5.00	13.50	18.50	13.50 - 18.50	457.58	4/25/2017	457.58	2.5	458.21	3.45	457.26
TMW-23[5]	591874	370019	461.68	462.22	447.68	442.68	5.00	14.00	19.00	14.00-19.00	458.78	10/22/2019	456.48	5.21	456.47	3.58	458.10
TMW-24[5]	592006	369808	461.15	461.46	449.15	442.15	7.00	12.00	19.00	12.00-19.00	459.53	4/25/2017	459.53	2.45	458.7	3.43	457.72
TMW-25	590283	367848	473.14	473.41	452.64	442.64	10.00	20.50	30.50	20.50 - 30.50	459.45	4/25/2017	459.45	14.6	458.54	15.22	457.92
TMW-26	590115	367763	472.10	469.47	454.10	444.10	10.00	18.00	28.00	18.00 - 28.00	460.37	10/5/2020	459.35	15.3	456.8	14.78	457.32
TMW-27	590091	367871	467.45	468.03	451.45	441.45	10.00	16.00	26.00	16.00 - 26.00	458.77	10/5/2020	456.53	10.1	457.35	10.70	456.75
TMW-28[4]	590092	367956	468.27	468.85	451.27	441.27	10.00	17.00	27.00	17.00-27.00	459.17	10/22/2019	457.21	NA	NA	NA	NA
TMW-29	592211	369848	462.19	462.56	450.19	443.19	10.00	12.00	19.00	12.00 - 19.00	NA	10/1/2012	NA	9.15	453.04	8.54	453.65
TMW-30	590113	367737	469.37	469.77	450.87	448.87	10.00	18.50	20.50	18.50 - 20.50	459.70	10/5/2020	457.07	13.2	456.17	13.40	455.97
TMW-32	590048	367787	466.9	467.07	450.40	440.40	10.00	16.50	26.50	16.50 - 26.50	459.25	10/5/2020	456.16	10.5	456.4	11.16	455.74
TMW-34	592334	368003	471.37	471.64	450.37	445.37	5.00	21.00	26.00	21.00 - 26.00	460.29	10/5/2020	457.72	12.3	459.07	12.32	459.05
TMW-35	591121	369924	473.37	469.70	455.37	450.37	5.00	18.00	23.00	18.00 - 23.00	459.10	4/12/2021	457.64	10.05	463.32	10.3	463.07
TMW-36	590884	367543	485.35	NA	NA	NA	5.00	NA	NA	36.00 - 41.00	457.06	10/22/2019	455.66	25.6	459.75	25.70	459.65
TMW-36B	590885	367548	485.35	485.77	449.35	444.35	5.00	36.00	41.00	25 - 31	NA	10/5/2020	NA	25.5	459.85	25.60	459.75

Notes:

TOC = Top of casing
NA = Not available
NM = Not measured
1 = Construction diagram notes use of pre-packed stainless steel screen
2 = Construction diagram text and graphical representation differ on construction details. Graphical representation used to infer elevations
3 = Construction diagram notes presence of sedimentation sump below screened interval
4 = Abandoned Monitoring Well
Horizontal and vertical coordinates converted to Arkansas State Plane, North Zone (NAD83) and North American Vertical Datum of 1988 (NAVD88) based on in historic site file. Casing elevations for ITMW-1 through ITMW-21 and MW-22 extracted from 2011/2012 Annual Ground Water Monitoring Report dated June 28, 2012.
Casing elevations for remaining wells extracted from survey data provided by Philip J. Leraris, PE, LS, dated May 12, 2009.
IW-129, IW-130, IW-131, and MW-81 to MW-99 surveyed during 2014.
Well screen intervals and depths adapted from monitoring well construction diagrams.
5 = During the November 2018 well repair event TOC elevations were modified due to repair work for TMW-12, TMW-19, TMW-23 and TMW-24. The TOC elevations listed on the table represent the most current elevations. All water level elevations prior to November 2018 were calculated using the previous surveyed TOC elevations.
6 = Water level collected on 10/20/22.

TABLE 5
SUMMARY OF VERTICAL HYDRAULIC GRADIENT
Whirlpool Facility - Fort Smith, Arkansas

Location/ Well Pairs	Middle of Screen Elevation[1] (feet)	Static Water Level Elevation (feet)					
		4/13/2015	7/20/2015	10/5/2015	1/6/2016	5/2/2016	11/7/2016
Shallow Well MW-177 and MW-70							
MW-177	462.00	466.94	469.09	465.34	469.97	469.00	465.19
MW-70	451.53	464.17	465.33	465.15	464.77	464.59	462.70
Vertical Hydraulic Gradient[2,3]		-0.26	-0.36	-0.02	-0.50	-0.42	-0.24
Shallow Well MW-176 and MW-46R[4]							
MW-176	451.74	463.81	464.66	464.49	464.38	464.18	462.30
MW-46R	446.69	462.85	464.88	464.67	464.40	464.21	462.34
Vertical Hydraulic Gradient[2,3]		-0.19	0.04	0.04	0.004	0.005	0.01
Shallow Well MW-175							
MW-175	450.17	460.25	463.71	463.47	463.37	463.42	462.22
Ave. of MW-46R & MW-56/56R	446.46	461.54	463.68	463.15	463.26	463.21	460.68
Vertical Hydraulic Gradient [2,3]		0.35	-0.007	-0.07	-0.02	-0.04	-0.32
Shallow Wells MW-174 and MW-63/MW-63R							
MW-174	451.95	457.67	459.92	461.75	459.71	460.01	459.77
MW-63/MW-63R	445.37	459.36	462.29	462.08	460.93	460.79	460.05
Vertical Hydraulic Gradient[2,3]		0.26	0.43	0.06	0.22	0.14	0.05
Shallow Wells MW-178 and MW-83							
MW-178	467.90	472.29	471.94	471.48	471.93	472.05	470.38
MW-83	450.98	464.02	465.25	465.01	464.72	464.47	462.64
Vertical Hydraulic Gradient[2,3]		-0.49	-0.40	-0.38	-0.43	-0.45	-0.46

Notes:

[1] MW-56R and MW-63R were installed in June 2015

[2] Negative gradient indicates downward gradient

[3] Reference elevations used in vertical gradient calculations were changed from ground surface to top of casing for the First Quarter 2016 Annual Groundwater Monitoring Report.

NM = Measurement not completed

RAMBOLL

TABLE 5
SUMMARY OF VERTICAL HYDRAULIC GRADIENT
Whirlpool Facility - Fort Smith, Arkansas

Location/ Well Pairs	Middle of Screen Elevation[1] (feet)	Static Water Level Elevation (feet)							
		4/25/2017	10/23/2017	4/17/2018	11/13/2018	4/23/2019	10/22/2019	5/11/2020	10/5/2020
Shallow Well MW-177 and MW-70									
MW-177	462.00	461.78	NM	467.56	467.47	467.69	467.31	468.55	468.41
MW-70	451.53	462.38	462.93	462.85	463.26	463.48	464.06	463.54	464.34
Vertical Hydraulic Gradient[2,3]		0.06	NM	-0.45	-0.40	-0.40	-0.31	-0.48	-0.39
Shallow Well MW-176 and MW-46R[4]									
MW-176	451.74	461.99	462.93	462.49	462.86	463.22	463.82	463.35	463.89
MW-46R	446.69	462.03	462.55	462.53	462.87	463.16	463.74	463.31	463.91
Vertical Hydraulic Gradient[2,3]		0.01	-0.08	0.01	0.001	-0.01	-0.02	-0.01	0.00
Shallow Well MW-175									
MW-175	450.17	460.74	456.06	461.71	462.08	462.44	464.17	462.90	463.14
Ave. of MW-46R & MW-56/56R	446.46	461.38	461.24	461.37	461.78	462.28	462.75	462.51	462.98
Vertical Hydraulic Gradient [2,3]		0.14	1.09	-0.07	-0.06	-0.03	-0.30	-0.08	-0.03
Shallow Wells MW-174 and MW-63/MW-63R									
MW-174	451.95	457.87	453.10	458.04	458.69	460.45	460.32	461.85	460.52
MW-63/MW-63R	445.37	458.56	459.92	458.22	459.35	458.94	460.96	459.57	461.06
Vertical Hydraulic Gradient[2,3]		0.13	1.24	0.03	0.12	-0.27	0.12	-0.41	0.10
Shallow Wells MW-178 and MW-83									
MW-178	467.90	471.50	471.31	471.54	471.37	471.62	470.99	471.38	471.08
MW-83	450.98	462.32	462.86	462.69	463.10	463.33	463.88	463.37	463.99
Vertical Hydraulic Gradient[2,3]		-0.54	-0.50	-0.52	-0.49	-0.49	-0.42	-0.47	-0.42

Notes:

[1] MW-56R and MW-63R were installed in June 2015

[2] Negative gradient indicates downward gradient

[3] Reference elevations used in vertical gradient calculations were changed from ground surface to top of casing for the First Quarter 2016 Annual Groundwater Monitoring Report.

NM = Measurement not completed

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TABLE 5
SUMMARY OF VERTICAL HYDRAULIC GRADIENT
Whirlpool Facility - Fort Smith, Arkansas

Location/ Well Pairs	Middle of Screen Elevation[1] (feet)	Static Water Level Elevation (feet)					
		4/12/2021	10/18/2021	4/12/2022	10/17/2022	4/15/2024	10/7/2024
Shallow Well MW-177 and MW-70							
MW-177	462.00	468.44	467.18	468.61	465.97	467.19	466.65
MW-70	451.53	463.52	462.59	462.12	463.03	463.03	463.13
Vertical Hydraulic Gradient[2,3]		-0.47	-0.44	-0.62	-0.28	-0.40	-0.34
Shallow Well MW-176 and MW-46R[4]							
MW-176	451.74	463.15	463.27	463.13	462.68	462.69	462.84
MW-46R	446.69	463.30	463.33	463.20	462.68	462.77	462.88
Vertical Hydraulic Gradient[2,3]		0.03	0.01	0.01	0.00	0.01	0.01
Shallow Well MW-175							
MW-175	450.17	463.67	462.79	462.14	462.62	470.47	470.48
Ave. of MW-46R & MW-56/56R	446.46	462.52	462.02	445.43	445.43	463.03	463.13
Vertical Hydraulic Gradient [2,3]		-0.24	-0.16	0.05	-0.32	0.04	-0.15
Shallow Wells MW-174 and MW-63/MW-63R							
MW-174	451.95	460.12	460.16	461.77	460.24	459.22	458.97
MW-63/MW-63R	445.37	459.58	460.81	459.17	460.09	461.72	462.22
Vertical Hydraulic Gradient[2,3]		-0.10	0.12	-0.47	-0.03	-0.09	-0.36
Shallow Wells MW-178 and MW-83							
MW-178	467.90	471.36	467.79	470.64	470.82	469.45	470.39
MW-83	450.98	463.12	463.47	463.31	462.90	-0.82	0.02
Vertical Hydraulic Gradient[2,3]		-0.49	-0.26	-0.43	-0.47	-0.39	-0.43

Notes:

[1] MW-56R and MW-63R were installed in June 2015

[2] Negative gradient indicates downward gradient

[3] Reference elevations used in vertical gradient calculations were changed from ground surface to top of casing for the First Quarter 2016 Annual Groundwater Monitoring Report.

NM = Measurement not completed

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TABLE 6
SUMMARY OF FINAL WELL GROUNDWATER FIELD PARAMETER MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Casing Diameter (inches)	Date Sampled	Water Level prior to Purging (feet btoc)	Total Depth of Well Casing (feet)	Set Tubing Depth (feet)	Time Sampled	Water Level after Purging (feet btoc)	Purge Volume (Gallons)	Purge Rate (mL/min)	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTUs)	Ferrous Iron (mg/L)	Color
ITMW-1R	2	10/11/2024	12.66	34.05	29.05	12:10	26.04	2.52	150	21.70	620.00	1.71	6.72	-92.00	80.60	NM	clear
ITMW-2R	2	10/8/2024	12.26	31.90	24.65	12:50	12.62	3.25	100	22.10	582.00	0.22	5.66	-154.80	2.06	0.00	clear
ITMW-5	4	10/11/2024	14.44	29.83	24.83	10:00	15.03	3.50	250	21.70	838.00	0.04	6.07	-213.20	6.11	NM	clear
ITMW-6	4	10/11/2024	23.34	39.29	34.29	8:45	23.37	2.25	200	18.70	1335.00	0.49	6.49	4.10	0.11	NM	clear
ITMW-7	4	10/8/2024	20.53	36.80	32.80	17:05	20.78	7.00	100	22.00	661.00	5.58	5.03	1.90	0.49	NM	clear
ITMW-9	4	10/11/2024	22.16	34.95	27.45	9:00	22.35	7.75	100	20.50	673.00	0.15	5.76	-133.20	2.11	0.02	clear
ITMW-10	4	10/11/2024	21.00	36.82	31.82	12:50	21.24	4.00	250	22.20	436.60	0.02	9.34	193.00	0.41	NM	clear
ITMW-16	4	10/10/2024	13.40	30.26	25.26	11:25	14.40	8.25	300	21.10	414.00	0.15	6.41	-114.20	3.94	NM	clear
ITMW-18	4	10/11/2024	10.84	29.50	22.00	11:50	11.17	9.00	100	21.90	2782.00	0.83	5.46	-85.90	1.80	NM	clear
ITMW-19	4	10/11/2024	13.43	33.23	28.23	14:20	14.77	5.00	100	21.80	9046.00	0.17	6.39	-198.80	3.34	0.00	clear with black flecks
ITMW-20	4	10/7/2024	14.50	31.00	26.50	16:40	16.50	5.00	100	22.50	639.00	1.58	4.26	-61.40	0.13	NM	clear
ITMW-21	4	10/10/2024	13.45	33.00	26.50	9:15	14.76	5.00	100	20.30	2415.00	1.52	4.47	-85.90	1.07	NM	clear
MW-22	4	10/8/2024	11.51	29.20	24.20	10:10	11.61	2.30	250	22.20	248.10	0.16	6.97	5.40	1.13	NM	clear
MW-24	4	10/9/2024	13.24	32.51	27.51	14:00	13.35	4.40	200	24.30	1294.00	0.04	5.85	-162.70	0.44	0.00	clear
MW-25R	2	10/11/2024	9.52	34.60	29.60	7:40	24.75	3.50	400	23.90	2265.00	0.80	6.54	-16.20	13.69	6.50	clear
MW-26	4	10/8/2024	14.39	35.14	30.14	9:00	14.75	2.40	200	20.10	1322.00	0.23	7.48	15.60	1.14	NM	clear
MW-27	2	10/8/2024	12.51	30.14	25.14	15:30	14.90	3.50	200	26.90	2942.00	0.13	7.33	-172.10	Overrange	7.00	brown
MW-28	2	10/8/2024	13.05	27.45	22.45	13:30	13.15	2.00	250	26.00	630.00	0.11	8.85	-133.00	10.00	NM	clear
MW-29	2	10/7/2024	12.67	30.32	22.00	16:18	12.65	3.00	150	22.60	477.00	0.21	4.86	140.20	NM	NM	clear
MW-38	2	10/11/2024	11.6	29.83	24.83	14:00	12.00	8.00	100	25.90	864.00	0.18	5.74	-75.90	0.96	3.06	clear
MW-39R	2	10/7/2024	12.53	29.69	27.20	15:10	12.42	4.50	100	21.70	1203.00	0.37	4.23	-75.50	2.68	NM	clear
MW-40R	2	10/10/2024	10.02	28.30	26.00	12:05	10.05	1.50	200	22.10	609.00	0.18	5.39	154.10	1.06	NM	clear
MW-46R	2	10/11/2024	3.02	21.51	19.00	11:10	3.75	1.75	200	21.50	979.00	0.14	6.27	-38.90	9.29	NM	clear with brown flecks
MW-50R	2	10/9/2024	2.50	18.25	18.00	10:20	8.32	5.50	250	23.10	1105.00	0.25	5.69	34.00	6.09	0.00	clear
MW-55R	2	10/10/2024	2.64	20.96	19.46	10:40	5.69	2.10	200	20.90	1009.00	0.11	5.83	-257.70	2.62	NM	clear
MW-56R	2	10/10/2024	3.00	19.80	18.80	14:15	6.73	8.00	100	20.00	549.00	0.20	4.96	-93.20	39.30	NM	clear
MW-57R	2	10/11/2024	3.19	19.35	16.85	11:00	8.59	4.50	100	19.80	752.00	0.20	5.25	-138.60	0.12	0.51	clear
MW-58R	2	10/11/2024	3.65	22.00	19.50	9:20	6.09	7.00	100	20.30	825.00	0.08	4.68	-83.30	4.25	0.23	clear
MW-60R	2	10/8/2024	1.78	14.86	12.50	11:05	7.98	3.75	175	24.00	1259.00	1.16	6.78	-299.20	18.20	NM	clear
MW-61R	2	10/9/2024	5.60	15.28	12.28	13:50	6.30	3.75	175	23.90	1062.00	0.08	6.62	-374.40	2.67	NM	clear
MW-62R	2	10/7/2024	4.75	20.01	17.51	16:20	7.45	4.75	200	20.50	734.00	8.00	6.47	73.30	4.77	NM	clear
MW-63R	2	10/9/2024	3.91	19.72	14.72	16:35	8.60	1.85	200	21.30	442.20	0.09	6.40	-325.80	13.90	NM	clear
MW-68	2	10/10/2024	6.69	20.35	15.35	13:50	6.99	1.60	200	21.50	800.00	0.07	5.82	-241.10	0.51	NM	clear
MW-82	2	10/10/2024	10.52	29.58	23.50	12:10	10.70	3.00	200	20.70	2001.00	0.06	5.26	3.60	11.85	NM	light brown
MW-83	2	10/10/2024	12.43	26.00	23.50	15:45	12.43	6.50	100	25.40	2174.00	0.12	5.86	-113.00	3.97	0.07	clear
MW-84	2	10/11/2024	12.65	26.77	23.30	10:00	12.82	5.50	175	24.90	5113.00	0.21	6.67	-154.60	8.07	0.00	clear
MW-87	2	10/11/2024	11.83	26.78	21.78	11:50	12.30	4.50	250	25.80	460.20	0.00	5.70	211.30	19.10	2.97	clear
MW-89	2	10/9/2024	10.47	25.00	20.00	13:40	15.95	3.50	200	25.90	891.00	0.05	4.66	240.50	6.06	0.00	clear
MW-91	2	10/10/2024	12.11	25.36	20.70	12:25	18.05	2.50	100	24.10	1127.00	0.30	7.11	-135.50	4.97	2.52	clear
MW-92	2	10/9/2024	10.57	29.20	24.20	14:55	10.79	7.00	100	21.70	3974.00	0.08	6.62	-45.30	16.40	10.00	light grayish-black
MW-93	2	10/11/2024	15.01	34.21	29.21	9:25	15.13	2.50	100	22.30	1173.00	0.78	5.39	117.20	2.27	NM	clear
MW-95	2	10/11/2024	15.29	34.14	29.14	10:24	15.26	2.80	100	22.40	1215.00	0.21	5.55	44.20	2.09	0.00	clear
MW-96	2	10/10/2024	8.93	14.53	12.05	9:55	11,63	2.50	100	23.20	225.10	0.54	5.72	-98.30	1.91	0.00	clear
MW-97	2	10/7/2024	9.00	15.20	12.70	18:20	14.00	3.50	150	24.60	243.50	10.20	6.74	75.70	51.30	NM	clear
MW-98	2	10/8/2024	12.43	19.65	17.15	11:30	16.71	2.20	150	23.60	431.20	0.24	9.66	-49.60	0.23	NM	clear
MW-99	2	10/9/2024	10.05	22.74	20.75	8:20	11.70	2.25	200	22.30	1269.00	0.21	7.36	-388.90	89.70	1.47	cloudy
IW-73	2	10/10/2024	8.28	26.70	21.70	16:50	8.38	3.50	100	19.00	492.80	0.10	5.64	-121.00	2.99	0.00	clear
IW-77	2	10/10/2024	9.72	28.65	23.65	16:00	9.94	3.50	100	18.40	1273.00	0.14	6.51	-144.80	0.55	0.00	clear
IW-78	2	10/10/2024	10.40	29.10	26.50	10:40	10.46	7.00	100	21.10	3757.00	1.36	7.22	-104.00	3.96	NM	clear
MW-172	2	10/10/2024	9.92	27.90	22.90	15:00	9.97	5.25	175	24.50	1073.00	0.37	5.75	-202.00	7.44	4.50	clear
MW-175	2	10/11/2024	1.85	14.59	14.00	8:05	10.89	1.75	200	21.90	1376.00	1.11	7.10	161.10	4.33	NM	clear
MW-176	2	10/9/2024	2.42	14.00	13.50	11:45	5.56	2.00	200	21.00	995.00	0.26	6.92	8.70	7.64	NM	clear
MW-178	2	10/11/2024	5.08	8.02	7.50	8:45	6.32	0.50	200	31.30	79.20	0.14	6.72	-154.20	Overrange	NM	dark gray
MW-179	2	NS	9.85	12.80	12.35	NS	12.27	0.50	200	29.50	612.00	0.07	6.49	-184.00	65.10	NM	clear
MW-182	2	10/9/2024	15.20	31.09	26.10	10:45	15.25	4.00	175	18.10	443.50	0.17	5.75	-383.20	1.08	NM	clear
MW-183R	2	10/9/2024	15.30	17.88	15.33	9:20	16.82	3.50	100	24.50	219.60	0.35	6.02	21.60	7.39	NM	clear
MW-184	2	10/8/2024	9.68	23.55	18.55	13:12	10.66	1.50	125	22.00	137.60	0.16	5.66	118.20	11.30	NM	clear
MW-185	2	10/10/2024	14.40	29.28	24.28	13:00	14.40	3.25	175	26.50	374.60	0.54	6.06	-133.80	5.98	NM	clear
MW-186	2	10/9/2024	13.45	27.80	22.80	10:20	19.51	3.25	100	19.40	1322.00	0.69	7.31	14.80	43.30	2.31	light brown
MW-187	2	10/10/2024	19.71	30.25	25.25	9:05	20.00	3.50	220	17.90	858.00	1.00	6.20	-123.60	4.20	NM	clear
MW-188	2	10/9/2024	21.68	34.58	29.58	15:20	23.70	1.60	200	21.10	714.00	0.08	6.70	-308.60	13.60	NM	clear
MW-189	2	10/10/2024	25.84	40.90	35.90	12:05	25.90	3.00	100	22.80	1677.00	0.62	5.89	-47.10	2.03	NM	clear
MW-190	2	10/9/2024	21.45	36.10	31.10	12:40	21.88	4.25	175	24.20	836.00	0.38	6.65	-310.00	35.10	NM	clear
MW-191	2	10/10/2024	17.11	33.20	30.50	11:15	17.15	1.75	200	24.10	311.90	0.08	5.84	161.20	8.72	NM	clear
MW-192	2	10/9/2024	15.67	30.20	27.70	8:50	16.67	3.00	100	22.60	143.30	0.59	5.25	134.10	4.07	NM	clear
MW-194	2	10/10/2024	4.30	21.92	16.92	8:50	4.45	3.00	200	20.90	1145.00	0.01	6.36	-54.60	3.58	NM	clear

RAMBOLL

TABLE 6
SUMMARY OF FINAL WELL GROUNDWATER FIELD PARAMETER MEASUREMENTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Well Casing Diameter (inches)	Date Sampled	Water Level prior to Purging (feet btoc)	Total Depth of Well Casing (feet)	Set Tubing Depth (feet)	Time Sampled	Water Level after Purging (feet btoc)	Purge Volume (Gallons)	Purge Rate (mL/min)	Temperature (°C)	Specific Conductivity (µS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTUs)	Ferrous Iron (mg/L)	Color
MW-195	2	10/8/2024	1.62	17.20	14.20	11:55	11.38	3.75	175	24.50	929.00	1.38	6.75	-226.40	3.87	NM	clear
MW-197	2	10/10/2024	11.85	24.00	19.50	13:20	11.91	2.00	150	23.50	612.00	0.00	6.46	-85.50	344.00	NM	light brown
MW-198	2	10/10/2024	10.15	29.00	26.50	16:25	10.25	2.00	100	24.30	3421.00	0.15	6.66	-184.0	8.15	10.00	light brown
MW-199	2	10/10/2024	9.31	22.00	17.00	15:25	9.62	2.75	210	21.30	788.00	0.05	6.68	-280.20	1.43	NM	clear
MW-200	2	10/7/2024	11.01	25.20	20.20	17:20	11.12	4.75	100	20.70	225.50	1.27	6.34	12.50	2.18	0.00	clear
MW-201	2	10/10/2024	21.40	36.00	31.00	14:45	21.48	2.00	200	21.30	487.00	0.12	6.14	136.60	0.74	NM	clear
MW-202	2	10/9/2024	10.20	24.20	19.20	15:15	10.28	5.00	175	21.10	249.90	0.42	6.33	-344.20	52.60	NM	clear
MW-203	2	10/8/2024	23.83	37.00	34.50	15:15	23.87	4.00	100	21.20	804.00	0.19	5.11	-52.60	2.29	NM	clear
MW-204	2	10/11/2024	21.48	36.38	31.38	10:00	22.09	3.50	250	18.40	674.00	0.00	5.59	362.20	22.30	NM	clear
MW-205	2	10/10/2024	15.05	36.10	31.10	13:25	15.08	3.50	100	21.90	351.30	0.14	6.01	-123.40	4.79	0.00	clear
MW-206	2	10/8/2024	18.05	31.58	26.58	15:40	18.51	2.85	180	22.30	601.00	0.35	7.16	-285.30	5.56	NM	clear
MW-207	2	10/7/2024	5.14	14.70	13.00	18:00	5.20	2.00	200	26.30	719.00	0.08	5.73	-97.20	9.80	NM	clear
MW-208	2	10/8/2024	22.70	31.68	30.00	9:50	22.85	2.25	200	21.00	566.00	0.14	5.97	103.80	90.60	NM	clear
MW-209	2	10/8/2024	21.15	34.35	33.00	11:50	28.42	2.50	150	25.00	262.50	0.24	6.22	-86.10	43.80	NM	clear
MW-210	2	12/16/2024	12.58	25.45	20.00	15:10	12.85	4.00	200	19.80	241.80	0.48	6.25	128.20	242.00	NM	light brown
MW-211	2	10/7/2024	12.52	24.75	19.75	17:50	12.52	2.50	200	20.20	383.50	0.67	9.52	-4.00	14.10	NM	clear
MW-212	2	10/8/2024	11.02	23.60	21.50	13:50	12.94	2.00	150	21.60	250.30	0.42	6.12	115.10	28.70	NM	clear
MW-213	2	10/8/2024	22.95	38.60	33.60	17:45	23.00	2.65	250	24.10	368.80	0.12	6.40	-350.20	82.60	NM	clear
MW-214	2	12/3/2024	14.50	24.65	22.00	10:00	13.92	4.00	200	20.90	526.00	0.45	6.73	-109.20	56.70	1.46	light brown
MW-215	2	10/11/2024	11.88	25.12	22.50	13:40	12.50	2.00	200	21.60	376.50	0.08	6.41	66.80	56.90	0.00	clear
MW-216	2	12/3/2024	14.20	32.05	28.00	12:20	14.98	3.50	200	19.60	364.80	0.42	6.62	-31.10	19.20	0.89	clear
MW-217	2	12/3/2024	13.58	27.00	25.00	14:55	20.01	3.50	150	22.80	524.00	0.26	6.53	63.90	11.60	0.19	clear
MW-218	2	12/3/2024	16.40	27.61	22.40	15:05	16.68	3.50	200	19.40	388.70	0.45	6.72	71.10	16.01	0.22	clear
MW-219	2	12/3/2024	15.95	31.70	27.00	16:50	16.00	3.50	200	19.60	340.10	0.40	6.27	90.50	15.20	0.00	clear
TMW-10	2	10/10/2024	4.11	15.20	12.50	16:15	5.53	2.00	200	21.70	1229.00	0.03	7.11	-164.80	3.32	2.11	clear
TMW-11	2	10/11/2024	3.44	15.10	12.50	10:00	4.68	2.50	200	21.60	992.00	0.04	7.19	-170.20	0.95	1.93	clear with black flecks
TMW-12	2	10/10/2024	5.60	22.13	17.13	15:05	5.86	4.75	250	21.00	534.00	0.00	5.11	172.00	7.04	NM	clear
TMW-14	2	10/8/2024	3.30	20.35	15.00	13:05	7.95	3.50	100	22.10	400.50	0.18	6.44	-96.70	15.20	NM	light yellow
TMW-16	2	10/10/2024	11.67	28.00	23.00	9:06	16.93	2.50	100	17.60	938.00	0.09	6.81	-150.80	6.22	0.60	clear with black flecks
TMW-19	2	10/8/2024	25.34	43.00	36.00	14:50	25.85	4.00	175	21.00	752.00	0.19	6.29	-480.70	7.35	0.00	clear
TMW-20	2	10/7/2024	3.35	17.90	14.90	17:32	4.42	4.00	200	24.00	1319.00	1.25	6.97	-485.90	1.75	NM	clear
TMW-21	2	10/9/2024	2.90	19.70	14.00	11:10	5.14	1.85	180	22.60	1462.00	0.78	7.26	-284.30	3.08	0.00	clear with black flecks
TMW-22R	2	10/10/2024	3.63	17.80	15.00	13:36	7.88	3.00	200	22.90	1313.00	0.22	6.56	-138.90	9.14	3.50	clear
TMW-23	2	10/10/2024	4.72	19.78	17.28	10:45	9.97	3.75	200	21.80	844.00	0.00	6.36	-16.00	4.88	NM	clear
TMW-24	2	10/11/2024	3.78	19.50	17.00	11:15	4.90	2.00	250	21.00	426.30	0.01	6.77	-125.80	0.89	NM	clear
TMW-25	2	10/9/2024	15.23	28.50	23.50	16:17	22.30	2.50	100	18.70	857.00	0.00	6.85	-139.70	195.00	0.00	clear
TMW-26	2	10/10/2024	15.98	28.60	23.60	10:30	18.47	2.00	100	18.60	1281.00	0.06	6.92	-151.40	5.83	NM	clear
TMW-27	2	10/9/2024	10.80	26.40	21.40	9:50	11.35	3.50	200	18.30	259.40	0.08	5.89	-154.20	20.60	NM	clear
TMW-29	2	10/8/2024	8.46	27.50	23.50	8:50	13.40	3.25	175	21.20	1131.00	0.13	6.56	-365.90	53.20	NM	clear
TMW-30	2	10/9/2024	13.30	28.80	23.80	9:15	20.05	2.50	400	18.90	2055.00	0.10	7.63	-588.70	780.00	NM	light brown
TMW-32	2	10/10/2024	11.30	26.50	21.50	9:00	11.38	4.75	175	19.50	596.00	0.11	6.63	-210.90	2.52	8.70	clear
TMW-34	2	10/10/2024	12.35	24.78	22.28	11:30	16.58	3.50	175	24.00	737.00	0.06	6.90	-290.00	10.90	7.00	clear
TMW-35	2	10/8/2024	10.30	23.00	20.50	9:05	11.93	5.00	100	19.00	242.60	0.07	5.04	-34.10	1.90	NM	clear
TMW-36	2	10/8/2024	25.74	41.00	38.50	12:40	25.85	4.00	100	20.80	1113.00	0.12	6.58	-8.10	4.32	3.75	clear
TMW-36B	2	10/8/2024	25.84	30.33	28.50	10:50	26.24	5.00	100	20.50	1794.00	0.25	5.72	-57.30	4.07	3.17	clear
RW-1	4	10/11/2024	10.00	33.56	22.50	12:10	10.27	4.25	175	25.10	1439.00	0.09	7.18	-294.20	1.63	NM	clear
RW-69	4	10/10/2024	8.08	28.10	23.10	14:25	8.04	8.00	100	18.20	851.00	0.11	5.21	-142.60	1.10	0.20	clear

Notes:

btoc = Below top of casing
ORP = Oxidation reduction potential
DO = Dissolved oxygen
(°C) = Degrees Celsius
mL/min = Milliliters per minute
mg/L = Milligrams per liter
NTUs = Nephelometric turbidity units
NM = Not measured
NS = Not Sampled
mV = Millivolts
(µS/cm) = Microsiemens per centimeter

All wells gauged using electronic water level meter and purged using peristaltic pumps.
Tubing inlet depths based on estimated distance from total depth.

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume			North Plume																		
Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	IW-73	IW-77	IW-78	IW-78	MW-39R	MW-40R	MW-46R	MW-50R	MW-55R	MW-56R	MW-57R	MW-58R	MW-60R	MW-61R	MW-62R	MW-63R	MW-68	MW-82	MW-194	MW-195	MW-195
Sample Date		10/10/2024	10/10/2024	10/10/2024; 11/19/2024	11/19/2024	10/07/2024	10/10/2024	10/11/2024; 11/19/2024	10/09/2024	10/10/2024; 11/20/2024	10/10/2024	10/11/2024	10/11/2024	10/08/2024	10/09/2024	10/07/2024	10/09/2024	10/10/2024	10/10/2024	10/10/2024; 11/20/2024	10/08/2024	10/08/2024
Comments					Field Duplicate																	Field Duplicate
Volatile Organic Compounds																						
Acetone	12000	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	UJ (19)	77 J (3.7)	U (3.7)	UJ (3.7)	45 (3.7)	U (3.7)	U (3.7)	U (3.7)	15 (3.7)	8.6 J (3.7)	U (3.7)	U (3.7)
Benzene	5.0	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (1.4)	UJ (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)
Bromochloromethane	NE	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (1.7)	UJ (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)
Bromoform	80	U (0.59)	U (0.59)	17 (0.59)	17 (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	UJ (3.0)	UJ (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)
2-Butanone	4900	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	UJ (0.75)	UJ (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	4.1 (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroethane	12000	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	UJ (23)	UJ (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)
Chloroform	80	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (1.4)	UJ (0.27)	U (0.27)	UF2 (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)
Dibromochloromethane	80	U (0.39)	U (0.39)	1.2 (0.39)	1.2 (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	UJ (2.0)	UJ (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)
1,2-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	UJ (1.7)	UJ (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)
1,1-Dichloroethene	7.0	1.0 (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	0.34 J (0.33)	U (0.33)	U (0.33)	UJ (1.7)	1.7 J (0.33)	2.1 (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)
1,2-Dichloroethene (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70	4.3 (0.25)	2.9 (0.25)	0.59 J (0.25)	0.58 J (0.25)	U (0.25)	U (0.25)	2.7 (0.25)	U (0.25)	1.9 (0.25)	UJ (1.3)	9.5 J (0.25)	6.3 (0.25)	UJ (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	0.98 J (0.25)	3.0 (0.25)	U (0.25)	U (0.25)
trans-1,2-Dichloroethene	100	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (1.7)	UJ (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)
Ethyl Benzene	700	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	UJ (1.0)	UJ (0.20)	U (0.20)	UJ (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)
Methyl tert-butyl ether	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	UJ (14)	UJ (2.7)	U (2.7)	UJ (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)
Methylene Chloride	5.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	UJ (1.8)	UJ (0.35)	U (0.35)	UJ (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)
Toluene	1000	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	UJ (1.3)	UJ (0.25)	U (0.25)	UJ (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)
Trichloroethene	5.0	140 (0.20)	79 (0.20)	24 (0.20)	24 (0.20)	U (0.20)	U (0.20)	120 (0.20)	1.1 (0.20)	23 (0.20)	480 J (1.0)	180 J (1.0)	250 (0.40)	UJ (0.20)	1.4 (0.20)	U (0.20)	11 (0.20)	U (0.20)	22 (0.20)	6.7 (0.20)	2.8 (0.20)	2.8 (0.20)
Trichlorofluoromethane	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	UJ (2.0)	UJ (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)
Xylenes (total)	10000	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	UJ (1.2)	UJ (0.23)	U (0.23)	UJ (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)
Metals																						
Iron	NE	370 (100)	NM	NM	NM	NM	NM	NM	430 (100)	NM	NM	NM	280 (100)	NM	8300 (100)	NM	NM	NM	NM	6400 (100)	NM	NM
Iron, Ferrous	NE	R	NM	NM	NM	NM	NM	NM	R	NM	NM	NM	200 J (100)	NM	150 J (100)	NM	NM	NM	NM	44 J (100)	NM	NM
Iron, Ferric	NE	370 (100)	NM	NM	NM	NM	NM	NM	430 (100)	NM	NM	NM	U (100)	NM	8200 (100)	NM	NM	NM	NM	6400 (100)	NM	NM
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
Butyric acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
1-Butanecarboxylic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
Organic Carbon (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1800 (1000)	NM	NM	NM	NM	1200 (1000)	NM	NM
Organic Carbon (dissolved)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1800 (1000)	NM	NM	NM	NM	1200 (1000)	NM	NM
Chloride	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	140000 (5000)	NM	NM	NM	NM	160000 (5000)	NM	NM
Formic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
n-Hexanoic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
Propionic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	380 J (500)	NM	NM
Pyruvic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
Sodium Persulfate	NE	NM	2800	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	U (100)	NM	NM	NM	NM	NM	NM	U (100)	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE	11000 (10000)	NM	NM	NM	NM	NM	NM	20000 J (25000)	NM	NM	NM	8600 J (20000)	NM	5200 J (10000)	NM	NM	NM	NM	6300 J (10000)	NM	NM
DL-Lactic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM
Nitrate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (100)	NM	NM	NM	NM	100 (100)	NM	NM
Nitrate/Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13 J (100)	NM	NM	NM	NM	150 F1F2 (100)	NM	NM
Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	81 J (100)	NM	NM	NM	NM	46 J (100)	NM	NM
Gasses																						
Acetylene	NE	UJ (5.0)	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM	NM	U (5.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Methane	NE	UJ (5.0)	NM	NM	NM	NM	NM	NM	8.2 (5.0)	NM	NM	NM	19 (5.0)	NM	1300 (1.0)	NM	NM	NM	NM	2000 (1.0)	NM	NM
Ethane	NE	UJ (5.0)	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM	NM	U (5.0)	NM	U (1.0)	NM	NM	NM	NM	U (1.0)	NM	NM
Ethene	NE	UJ (5.0)	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM	NM	U (5.0)	NM	U (1.0)	NM	NM	NM	NM	U (1.0)	NM	NM
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.25)	NM	NM	NM	NM	NM	NM	U (0.25)	NM	NM	NM	U (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalococcoides (DHC) [cells/mL]	NE	3.5 (0.25)	NM	NM	NM	NM	NM	NM	0.16 J (0.25)	NM	NM	NM	0.28 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalobacter spp. [cells/mL]	NE	U (0.25)	NM	NM	NM	NM	NM	NM	13 (0.25)	NM	NM	NM	270 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM
tceA Reductase [cells/mL]	NE	0.37 (0.25)	NM	NM	NM	NM	NM	NM	U (0.25)	NM	NM	NM	U (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	0.2 J (0.25)	NM	NM	NM	NM	NM	NM	U (0.25)	NM	NM	NM	U (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Field Parameters																						
Dissolved Oxygen	NE	100	140	1360	NM	370	180	140	250	110	200	200	80	1160	80	8000	90	70	60	10	NM	NM
Depth to Water [ft BTOC]	NE	8.28	9.72	10.4	NM	12.53	10.02	3.02	2.5	2.64	3	3.19	3.65	1.78	5.6	4.75	3.91	6.69	10.52	4.3	NM	NM
Iron, Ferrous	NE	0	0	NM	NM	NM	NM	NM	0	NM	NM	510	230	NM	NM	NM	NM	NM	NM	NM	NM	NM
Oxidation Reduction Potential [mV]	NE	-121	-144.8	-104	NM	-75.5	154.1	-38.9	34	-257.7	-93.2	-138.6	-83.3	-299.2	-374.4	73.3	-325.8	-241.1	3.6	-54.6	NM	NM
pH (Field Analysis) [SU]	NE	5.64	6.51	7.22	NM	4.23	5.39	6.27	5.69	5.83	4.96	5.25	4.68	6.78	6.62	6.47	6.4	5.82	5.26	6.36	NM	NM
Specific Conductivity (Field Analysis) [uS/cm]	NE	492.8	1273	3757	NM	1203	609	979	1105	1009	549	752	825	1259	1062	734	442.2	800	2001	1145	NM	NM
Temperature (Field) [C]	NE	19	18.4	21.1	NM	21.7	22.1	21.5	23.1	20.9	20	19.8	20.3	24	23.9	20.5	21.3	21.5	20.7	20.9	NM	NM
Turbidity (Field Parameters) [NTU]	NE	2.99	0.55	3.96	NM	2.68	1.06	9.29	6.09	2.62	39.3	0.12	4.25	18.2	2.67	4.77	13.9	0.51	11.85	3.58	NM	NM

Notes:
1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:
µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume			North Plume										South Plume									
Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	MW-196	RW-69	TMW-10	TMW-11	TMW-21	TMW-22R	TMW-23	TMW-24	TMW-29	TMW-35	TMW-35	HP-33	HP-34	HP-35	HP-35	HP-36	HP-37	HP-38	HP-39	HP-39	HP-40
Sample Date		11/19/2024	10/10/2024	10/10/2024	10/11/2024	10/09/2024	10/10/2024	10/10/2024; 11/20/2024	10/11/2024	10/08/2024	10/08/2024	10/08/2024	06/21/2024	06/21/2024	06/20/2024	06/20/2024	06/20/2024	06/20/2024	06/19/2024	06/19/2024	06/19/2024	06/19/2024
Comments												Field Duplicate				Field Duplicate					Field Duplicate	
Volatile Organic Compounds																						
Acetone	12000	U (3.7)	U (3.7)	U (3.7)	UJ (3.7)	U (3.7)	U (3.7)	U (3.7)	U (19)	U (3.7)	U (3.7)	U (3.7)	68.6 (11.3)	U (22.6)	U (11.3)	U (11.3)	23.9 J (11.3)	24.2 J (11.3)	U (11.3)	U (11.3)	U (11.3)	U (11.3)
Benzene	5.0	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	U (0.27)	U (1.4)	U (0.27)	U (0.27)	U (0.27)	0.172 J (0.0941)	U (0.188)	U (0.0941)	U (0.0941)	0.264 J (0.0941)	0.226 J (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)
Bromochloromethane	NE	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	U (0.34)	U (1.7)	U (0.34)	U (0.34)	U (0.34)	U (0.128)	U (0.256)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)
Bromoform	80	U (0.59)	U (0.59)	U (0.59)	UJ (0.59)	U (0.59)	U (0.59)	U (0.59)	U (3.0)	U (0.59)	U (0.59)	U (0.59)	U (0.129)	U (0.258)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)
2-Butanone	4900	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (1.19)	U (2.38)	U (1.19)	U (1.19)	3.03 J (1.19)	U (1.19)	U (1.19)	U (1.19)	U (1.19)	U (1.19)
Carbon Disulfide	720	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.0962)	U (0.192)	U (0.0962)	U (0.0962)	0.110 J (0.0962)	0.179 J (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)
Chlorobenzene	100	U (0.15)	U (0.15)	U (0.15)	UJ (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.75)	U (0.15)	1.9 (0.15)	U (0.15)	U (0.116)	U (0.232)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	0.357 J (0.116)
Chloroethane	12000	U (4.6)	U (4.6)	U (4.6)	UJ (4.6)	U (4.6)	8.4 (4.6)	U (4.6)	U (23)	U (4.6)	U (4.6)	U (4.6)	U (0.192)	U (0.384)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)
Chloroform	80	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	U (0.27)	U (1.4)	U (0.27)	U (0.27)	U (0.27)	U (0.111)	U (0.222)	U (0.111)	U (0.111)	0.758 J (0.111)	U (0.111)	0.222 J (0.111)	U (0.111)	U (0.111)	U (0.111)
Dibromochloromethane	80	U (0.39)	U (0.39)	U (0.39)	UJ (0.39)	U (0.39)	U (0.39)	U (0.39)	U (2.0)	U (0.39)	U (0.39)	U (0.39)	U (0.140)	U (0.280)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)
1,2-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.107)	U (0.214)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	0.296 J (0.107)
1,4-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.120)	U (0.240)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	0.121 J (0.120)
1,1-Dichloroethane	2.4	U (0.33)	U (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)	U (0.33)	U (1.7)	U (0.33)	U (0.33)	U (0.33)	U (0.100)	U (0.200)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)
1,1-Dichloroethene	7.0	U (0.33)	1.1 (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)	U (0.33)	U (1.7)	U (0.33)	U (0.33)	U (0.33)	U (0.188)	U (0.376)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)
1,2-Dichloroethene (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.656)	U (1.31)	U (0.656)	U (0.656)	1.68 (0.656)	U (0.656)	U (0.656)	U (0.656)	U (0.656)	4.22 (0.656)
cis-1,2-Dichloroethene	70	U (0.25)	3.4 (0.25)	1.2 (0.25)	UJ (0.25)	U (0.25)	37 (0.25)	U (0.25)	9.9 (1.3)	U (0.25)	U (0.25)	U (0.25)	U (0.126)	U (0.252)	U (0.126)	U (0.126)	1.68 (0.126)	U (0.126)	U (0.126)	U (0.126)	U (0.126)	4.22 (0.126)
trans-1,2-Dichloroethene	100	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	1.7 (0.34)	U (0.34)	U (1.7)	U (0.34)	U (0.34)	U (0.34)	U (0.149)	U (0.298)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)
Ethyl Benzene	700	U (0.20)	U (0.20)	U (0.20)	UJ (0.20)	U (0.20)	U (0.20)	U (0.20)	U (1.0)	U (0.20)	U (0.20)	U (0.20)	U (0.137)	U (0.274)	U (0.137)	U (0.137)	U (0.137)	0.286 J (0.137)	U (0.137)	U (0.137)	U (0.137)	U (0.137)
Methyl tert-butyl ether	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.101)	U (0.202)	U (0.101)	U (0.101)	48.8 (0.101)	0.388 J (0.101)	U (0.101)	U (0.101)	U (0.101)	U (0.101)
4-Methyl-2-pentanone	1000	U (2.7)	U (2.7)	U (2.7)	UJ (2.7)	U (2.7)	U (2.7)	U (2.7)	U (14)	U (2.7)	U (2.7)	U (2.7)	U (0.478)	U (0.956)	U (0.478)	U (0.478)	0.715 J (0.478)	U (0.478)	U (0.478)	U (0.478)	U (0.478)	U (0.478)
Methylene Chloride	5.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.430)	0.992 J (0.860)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)
Tetrachloroethene	5.0	U (0.35)	U (0.35)	U (0.35)	UJ (0.35)	U (0.35)	U (0.35)	U (0.35)	U (1.8)	U (0.35)	U (0.35)	U (0.35)	U (0.300)	U (0.600)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	0.751 J (0.300)
Toluene	1000	U (0.25)	U (0.25)	0.75 J (0.25)	UJ (0.25)	0.40 J (0.25)	U (0.25)	U (0.25)	U (1.3)	U (0.25)	U (0.25)	U (0.25)	U (0.278)	U (0.556)	U (0.278)	U (0.278)	0.281 J (0.278)	0.346 J (0.278)	U (0.278)	U (0.278)	U (0.278)	U (0.278)
Trichloroethene	5.0	0.31 J (0.20)	63 (0.20)	5.0 (0.20)	UJ (0.20)	1.3 (0.20)	44 (0.20)	160 (0.20)	360 (1.0)	U (0.20)	U (0.20)	U (0.20)	U (0.190)	U (0.380)	U (0.190)	U (0.190)	6.59 (0.190)	U (0.190)	U (0.190)	U (0.190)	U (0.190)	28.5 (0.190)
Trichlorofluoromethane	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.160)	U (0.320)	U (0.160)	U (0.160)	U (0.160)	U (0.160)	U (0.160)	U (0.160)	U (0.160)	1.33 J (0.160)
Vinyl Chloride	2.0	U (0.40)	U (0.40)	6.5 (0.40)	UJ (0.40)	3.1 (0.40)	19 (0.40)	U (0.40)	U (2.0)	U (0.40)	U (0.40)	U (0.40)	UJ (0.234)	UJ (0.468)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)
Xylenes (total)	10000	U (0.23)	U (0.23)	U (0.23)	UJ (0.23)	U (0.23)	U (0.23)	U (0.23)	U (1.2)	U (0.23)	U (0.23)	U (0.23)	U (0.174)	U (0.348)	U (0.174)	U (0.174)	0.534 J (0.174)	2.14 J (0.174)	U (0.174)	U (0.174)	U (0.174)	U (0.174)
Metals																						
Iron	NE	NM	400 (100)	11000 (100)	5000 (100)	11000 (100)	5500 (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Iron, Ferrous	NE	NM	380 J (100)	R	R	R	33 J (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Iron, Ferric	NE	NM	U (100)	11000 (100)	5000 (100)	11000 (100)	5500 (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Butyric acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1-Butanecarboxylic Acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Organic Carbon (total)	NE	NM	NM	2600 (1000)	2400 (1000)	3500 (1000)	2600 (1000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Organic Carbon (dissolved)	NE	NM	NM	2400 (1000)	2500 (1000)	3200 (1000)	14000 (1000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chloride	NE	NM	NM	170000 (10000)	62000 (2500)	250000 (13000)	210000 (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Formic acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
n-Hexanoic acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Propionic Acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Pyruvic Acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sodium Persulfate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	NM	NM	U (100)	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE	NM	U (20000)	U (20000)	U (5000)	U (25000)	U (20000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DL-Lactic Acid	NE	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nitrate	NE	NM	NM	U (100)	U (100)	U (100)	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nitrate/Nitrite	NE	NM	NM	61 J (100)	22 J (100)	11 J (100)	35 J (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nitrite	NE	NM	NM	77 J (100)	63 J (100)	U (100)	31 J (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Gasses																						
Acetylene	NE	NM	U (5.0)	U (5.0)	U (5.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Methane	NE	NM	28 (5.0)	2700 (100)	1800 (100)	14000 (5.0)	4400 (2.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Ethane	NE	NM	U (5.0)	1.1 J (5.0)	U (5.0)	U (1.0)	3.2 (1.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Ethene	NE	NM	U (5.0)	5.0 (5.0)	U (5.0)	4.8 (1.0)	18 (1.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	NM	0.11 J (0.25)	U (0.2)	U (0.2)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalococcoides (DHC) [cells/mL]	NE	NM	5.8 (0.25)	11 (0.2)	7.7 (0.2)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalobacter spp. [cells/mL]	NE	NM	940 (0.25)	260 (0.2)	U (0.2)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
tceA Reductase [cells/mL]	NE	NM	3.3 (0.25)	36 (0.2)	0.13 J (0.2)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	NM	1.7 (0.25)	14 (0.2)	0.28 (0.2)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Field Parameters																						
Dissolved Oxygen	NE	NM	110	30	40	780	220	U (10)	10	130	70	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Depth to Water [ft BTOC]	NE	NM	8.08	4.11	3.44	2.9	3.63	4.72	3.78	8.46	10.3	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Iron, Ferrous	NE	NM	200	2110	1930	0	3500	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Oxidation Reduction Potential [mV]	NE	NM	-142.6	-164.8	-170.2	-284.3	-138.9	-16	-125.8	-365.9	-34.1	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
pH (Field Analysis) [SU]	NE	NM	5.21	7.11	7.19	7.26	6.56	6.36	6.77	6.56	5.04	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Specific Conductivity (Field Analysis) [uS/cm]	NE	NM	851	1229	992	1462	1313	844	426.3	1131	242.6	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Temperature (Field) [C]	NE	NM	18.2	21.7	21.6	22.6	22.9	21.8	21	21.2	19	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Turbidity (Field Parameters) [NTU]	NE	NM	1.1	3.32	0.95	3.08	9.14	4.88	0.89	53.2	1.9	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes:
1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:
µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

RAMBOLL

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume	Remedial Action Levels per ADEQ RADD Issued Dec 2013	South Plume																			
Location		HP-41	HP-50	ITMW-1R	ITMW-2R	ITMW-5	ITMW-6	ITMW-7	ITMW-9	ITMW-10	ITMW-16	ITMW-18	ITMW-19	ITMW-19	ITMW-20	ITMW-20	ITMW-21	ITMW-21	MW-22	MW-24	MW-25R	MW-26
Sample Date		06/20/2024	08/07/2024	10/10/2024; 10/11/2024	10/08/2024	10/11/2024	10/11/2024	10/08/2024	10/11/2024	10/11/2024	10/10/2024; 12/04/2024	10/11/2024	10/11/2024; 12/04/2024	10/11/2024	10/07/2024	10/07/2024	10/10/2024	10/10/2024	10/08/2024	10/09/2024	10/11/2024	10/08/2024
Comments														Field Duplicate		Field Duplicate		Field Duplicate				
Volatile Organic Compounds																						
Acetone	12000	16.7 J (11.3)	U (11.3)	U (3.7)	U (3.7)	U (93)	U (19)	UJ (3.7)	U (93)	U (7.4)	U (3.7)	UJ (74)	1100 (19)	1700 J+ (19)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	UJ (3.7)	U (3.7)
Benzene	5.0	0.0947 J (0.0941)	U (0.0941)	U (0.27)	U (0.27)	U (6.8)	U (1.4)	UJ (0.27)	U (6.8)	U (0.54)	U (0.27)	UJ (5.4)	41 (1.4)	35 J+ (1.4)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)
Bromochloromethane	NE	U (0.128)	U (0.128)	U (0.34)	U (0.34)	U (8.5)	U (1.7)	UJ (0.34)	U (8.5)	U (0.68)	U (0.34)	UJ (6.8)	UJ (1.7)	UJ (1.7)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)
Bromoform	80	U (0.129)	U (0.129)	U (0.59)	U (0.59)	U (15)	U (3.0)	UJ (0.59)	U (15)	U (1.2)	U (0.59)	UJ (12)	UJ (3.0)	UJ (3.0)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	UJ (0.59)	U (0.59)
2-Butanone	4900	2.04 J (1.19)	U (1.19)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720	U (0.0962)	U (0.0962)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100	U (0.116)	U (0.116)	U (0.15)	U (0.15)	U (3.8)	U (0.75)	UJ (0.15)	U (3.8)	U (0.30)	U (0.15)	UJ (3.0)	UJ (0.75)	UJ (0.75)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	UJ (0.15)	U (0.15)
Chloroethane	12000	U (0.192)	U (0.192)	U (4.6)	U (4.6)	U (120)	U (23)	UJ (4.6)	U (120)	U (9.2)	U (4.6)	UJ (92)	UJ (23)	UJ (23)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	UJ (4.6)	U (4.6)
Chloroform	80	U (0.111)	U (0.111)	U (0.27)	U (0.27)	U (6.8)	U (1.4)	UJ (0.27)	U (6.8)	U (0.54)	U (0.27)	UJ (5.4)	UJ (1.4)	UJ (1.4)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	2.9 J (0.27)	U (0.27)
Dibromochloromethane	80	U (0.140)	U (0.140)	U (0.39)	U (0.39)	U (9.8)	U (2.0)	UJ (0.39)	U (9.8)	U (0.78)	U (0.39)	UJ (7.8)	UJ (2.0)	UJ (2.0)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	UJ (0.39)	U (0.39)
1,2-Dichlorobenzene	NE	U (0.107)	U (0.107)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE	U (0.120)	U (0.120)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4	U (0.100)	U (0.100)	4.8 (0.33)	U (0.33)	U (8.3)	U (1.7)	UJ (0.33)	U (8.3)	U (0.66)	U (0.33)	UJ (6.6)	UJ (1.7)	UJ (1.7)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	0.66 J (0.33)	U (0.33)
1,1-Dichloroethene	7.0	U (0.188)	U (0.188)	U (0.33)	U (0.33)	U (8.3)	U (1.7)	UJ (0.33)	U (8.3)	U (0.66)	U (0.33)	UJ (6.6)	UJ (1.7)	UJ (1.7)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	6.6 J (0.33)	U (0.33)
1,2-Dichloroethene (total)	NE	U (0.656)	U (0.656)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70	U (0.126)	U (0.126)	20 (0.25)	U (0.25)	19 J (6.3)	12 (1.3)	UJ (0.25)	75 (6.3)	4.8 (0.50)	U (0.25)	240 J (5.0)	340 J (1.3)	520 J+ (1.3)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	2600 J (13)	U (0.25)
trans-1,2-Dichloroethene	100	U (0.149)	U (0.149)	U (0.34)	U (0.34)	U (8.5)	U (1.7)	UJ (0.34)	U (8.5)	U (0.68)	U (0.34)	44 J (6.8)	UJ (1.7)	UJ (1.7)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	59 J (0.34)	U (0.34)
Ethyl Benzene	700	U (0.137)	U (0.137)	U (0.20)	U (0.20)	U (5.0)	U (1.0)	UJ (0.20)	U (5.0)	U (0.40)	U (0.20)	UJ (4.0)	UJ (1.0)	UJ (1.0)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	UJ (0.20)	U (0.20)
Methyl tert-butyl ether	NE	U (0.101)	U (0.101)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000	U (0.478)	U (0.478)	U (2.7)	U (2.7)	U (68)	U (14)	UJ (2.7)	U (68)	U (5.4)	U (2.7)	UJ (54)	UJ (14)	UJ (14)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	UJ (2.7)	U (2.7)
Methylene Chloride	5.0	U (0.430)	U (0.430)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0	U (0.300)	U (0.300)	0.61 J (0.35)	U (0.35)	U (8.8)	U (1.8)	UJ (0.35)	U (8.8)	U (0.70)	U (0.35)	UJ (7.0)	UJ (1.8)	UJ (1.8)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	1.4 J (0.35)	U (0.35)
Toluene	1000	U (0.278)	U (0.278)	U (0.25)	U (0.25)	U (6.3)	U (1.3)	UJ (0.25)	U (6.3)	U (0.50)	U (0.25)	UJ (5.0)	UJ (1.3)	UJ (1.3)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	UJ (0.25)	U (0.25)
Trichloroethene	5.0	U (0.190)	12.1 (0.190)	17 (0.20)	2.4 (0.20)	2300 (5.0)	1300 J (2.0)	UJ (0.20)	3400 (5.0)	390 (0.40)	U (0.20)	2100 J (4.0)	610 J (1.0)	440 J+ (1.0)	U (0.20)	U (0.20)	4.8 (0.20)	4.3 (0.20)	U (0.20)	16 (0.20)	2600 J (10)	U (0.20)
Trichlorofluoromethane	NE	U (0.160)	2.41 J (0.160)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0	U (0.234)	U (0.234)	U (0.40)	U (0.40)	U (10)	U (2.0)	UJ (0.40)	U (10)	U (0.80)	U (0.40)	UJ (8.0)	UJ (2.0)	UJ (2.0)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	39 J (0.40)	U (0.40)
Xylenes (total)	10000	U (0.174)	U (0.174)	U (0.23)	U (0.23)	U (5.8)	U (1.2)	UJ (0.23)	U (5.8)	U (0.46)	U (0.23)	UJ (4.6)	UJ (1.2)	UJ (1.2)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	UJ (0.23)	U (0.23)
Metals																						
Iron	NE	NM	NM	NM	NM	NM	NM	NM	U (100)	NM	1400 (100)	NM	120000 (100)	120000 (100)	NM	NM	NM	NM	NM	21 J (100)	820 (100)	NM
Iron, Ferrous	NE	NM	NM	NM	NM	NM	NM	NM	52 J (100)	NM	R	NM	37000 J (1000)	44000 J (1000)	NM	NM	NM	NM	NM	R	R	NM
Iron, Ferric	NE	NM	NM	NM	NM	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	820 (100)	NM
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	2200000 (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Butyric acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
1-Butanecarboxylic Acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Organic Carbon (total)	NE	NM	NM	NM	NM	NM	NM	NM	1300 (1000)	NM	NM	NM	1700000 (1000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Organic Carbon (dissolved)	NE	NM	NM	NM	NM	NM	NM	NM	1800 (1000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chloride	NE	NM	NM	NM	NM	NM	NM	NM	140000 (5000)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Formic acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	1500000 (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
n-Hexanoic acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Propionic Acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	660000 (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Pyruvic Acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sodium Persulfate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (100)	NM
Sulfate	NE	NM	NM	NM	NM	NM	NM	NM	32000 (10000)	NM	5800 (1000)	NM	1600000 (100000)	1700000 (100000)	NM	NM	NM	NM	NM	130000 (25000)	860000 (25000)	NM
DL-Lactic Acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nitrate	NE	NM	NM	NM	NM	NM	NM	NM	4600 (100)	NM	59 J (100)	NM	U (100)	U (100)	NM	NM	NM	NM	NM	850 (100)	NM	NM
Nitrate/Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	4600 (500)	NM	U (100)	NM	33 J (100)	34 J (100)	NM	NM	NM	NM	NM	880 (200)	NM	NM
Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	24 J (100)	NM	U (100)	NM	470 B (100)	400 B (100)	NM	NM	NM	NM	NM	U (100)	NM	NM
Gasses																						
Acetylene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (5.0)	NM	UJ (5.0)	UJ (5.0)	NM	NM	NM	NM	NM	U (5.0)	UJ (5.0)	NM
Methane	NE	NM	NM	NM	NM	NM	NM	NM	15 (1.0)	NM	13 (5.0)	NM	UJ (5.0)	UJ (5.0)	NM	NM	NM	NM	NM	U (5.0)	99 J- (5.0)	NM
Ethane	NE	NM	NM	NM	NM	NM	NM	NM	U (1.0)	NM	U (5.0)	NM	UJ (5.0)	UJ (5.0)	NM	NM	NM	NM	NM	U (5.0)	UJ (5.0)	NM
Ethene	NE	NM	NM	NM	NM	NM	NM	NM	U (1.0)	NM	U (5.0)	NM	UJ (5.0)	U (5.0)	NM	NM	NM	NM	NM	U (5.0)	UJ (5.0)	NM
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.25)	U (0.5)	NM	NM	NM	NM	NM	NM	U (0.25)	NM
Dehalococcoides (DHC) [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	26 (0.25)	75 (0.5)	NM	NM	NM	NM	NM	NM	U (0.25)	NM
Dehalobacter spp. [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1100000 (0.25)	3100000 (0.5)	NM	NM	NM	NM	NM	NM	U (0.25)	NM
tceA Reductase [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	16 (0.25)	52 (0.5)	NM	NM	NM	NM	NM	NM	U (0.25)	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6.8 (0.25)	22 (0.5)	NM	NM	NM	NM	NM	NM	U (0.25)	NM
Field Parameters																						
Dissolved Oxygen	NE	NM	NM	1710	220	40	490	5580	150	20	150	830	170	NM	1580	NM	1520	NM	160	40	800	230
Depth to Water [ft BTOC]	NE	NM	NM	12.66	12.26	14.44	23.34	20.53	22.16	21	13.4	10.84	13.43	NM	14.5	NM	13.45	NM	11.51	13.24	9.52	14.39
Iron, Ferrous	NE	NM	NM	NM	0	NM	NM	NM	20	NM	NM	NM	0	NM	NM	NM	NM	NM	NM	0	6500	NM
Oxidation Reduction Potential [mV]	NE	NM	NM	-92	-154.8	-213.2	4.1	1.9	-133.2	193	-114.2	-85.9	-198	NM	-61.4	NM	-85.9	NM	5.4	-162.7	-16.2	15.6
pH (Field Analysis) [SU]	NE	NM	NM	6.72	5.66	6.07	6.49	5.03	5.76	9.34	6.41	5.46	6.39	NM	4.36	NM	4.47	NM	6.97	5.85	6.54	7.48
Specific Conductivity (Field Analysis) [uS/cm]	NE	NM	NM	620	582	838	1335	661	673	436.6	414	2782	9046	NM	639	NM	2415	NM	248.1	1294	2265	1322
Temperature (Field) [C]	NE	NM	NM	21.7	22.1	21.7	18.7	22	20.5	22.2	21.1	21.9	21.8	NM	22.5	NM	20.3	NM	22.2	24.3	23.9	20.1
Turbidity (Field Parameters) [NTU]	NE	NM	NM	80.6	2.06	6.11	0.11	0.49	2.11	0.41	3.94	1.8	3.34	NM	0.13	NM	1.07	NM	1.13	0.44	13.69	1.14

Notes:

1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:

µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume			South Plume																			
Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013		MW-27	MW-28	MW-29	MW-38	MW-83	MW-84	MW-92	MW-93	MW-95	MW-172	MW-182	MW-182	MW-186	MW-187	MW-188	MW-189	MW-190	MW-191	MW-192	MW-197	MW-198
Sample Date			10/08/2024	10/08/2024	10/07/2024	10/11/2024	10/10/2024; 10/11/2024	10/11/2024	10/09/2024; 12/04/2024	10/11/2024	10/11/2024	10/10/2024; 12/04/2024	10/09/2024	10/09/2024	10/09/2024	10/10/2024	10/09/2024	10/10/2024	10/09/2024	10/10/2024	10/09/2024	10/10/2024	10/10/2024; 12/04/2024
Comments														Field Duplicate								
Volatile Organic Compounds																						
Acetone	12000	150 J- (3.7)	U (3.7)	U (3.7)	U (37)	U (3.7)	19 J (3.7)	UJ (19)	U (190)	U (740)	24 (3.7)	U (3.7)	U (3.7)	6.4 J (3.7)	UJ (3.7)	U (3.7)	U (3.7)	U (19)	U (3.7)	U (3.7)	U (3.7)	590 J- (93)
Benzene	5.0	0.27 J (0.27)	U (0.27)	U (0.27)	U (2.7)	U (0.27)	UJ (0.27)	UJ (1.4)	U (14)	U (54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	U (1.4)	U (0.27)	U (0.27)	U (0.27)	UJ (6.8)
Bromochloromethane	NE	UJ (0.34)	U (0.34)	U (0.34)	U (3.4)	U (0.34)	1.4 J (0.34)	UJ (1.7)	U (17)	U (68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	U (1.7)	U (0.34)	U (0.34)	U (0.34)	UJ (8.5)
Bromoform	80	UJ (0.59)	U (0.59)	U (0.59)	U (5.9)	3.3 (0.59)	2.0 (0.59)	UJ (3.0)	U (30)	U (120)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	UJ (0.59)	U (0.59)	U (0.59)	U (3.0)	U (0.59)	U (0.59)	U (0.59)	UJ (15)
2-Butanone	4900	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100	UJ (0.15)	U (0.15)	4.2 (0.15)	U (1.5)	U (0.15)	UJ (0.15)	UJ (0.75)	U (7.5)	U (30)	U (0.15)	4.5 (0.15)	4.3 (0.15)	U (0.15)	UJ (0.15)	U (0.15)	U (0.15)	U (0.75)	U (0.15)	U (0.15)	0.82 J (0.15)	UJ (3.8)
Chloroethane	12000	UJ (4.6)	U (4.6)	U (4.6)	U (46)	U (4.6)	UJ (4.6)	UJ (23)	U (230)	U (920)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	UJ (4.6)	U (4.6)	U (4.6)	U (23)	U (4.6)	U (4.6)	U (4.6)	UJ (120)
Chloroform	80	U (0.27)	U (0.27)	U (0.27)	U (2.7)	U (0.27)	UJ (0.27)	UJ (1.4)	U (14)	U (54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	1.5 (0.27)	U (1.4)	U (0.27)	U (0.27)	U (0.27)	UJ (6.8)
Dibromochloromethane	80	UJ (0.39)	U (0.39)	U (0.39)	U (3.9)	U (0.39)	UJ (0.39)	UJ (2.0)	U (20)	U (78)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	UJ (0.39)	U (0.39)	U (0.39)	U (2.0)	U (0.39)	U (0.39)	U (0.39)	UJ (9.8)
1,2-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4	UJ (0.33)	U (0.33)	U (0.33)	U (3.3)	U (0.33)	UJ (0.33)	UJ (1.7)	U (17)	U (66)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	0.39 J (0.33)	U (0.33)	U (0.33)	U (1.7)	U (0.33)	U (0.33)	UJ (8.3)
1,1-Dichloroethene	7.0	UJ (0.33)	U (0.33)	U (0.33)	U (3.3)	U (0.33)	UJ (0.33)	7.4 J- (1.7)	U (17)	U (66)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)	U (0.33)	U (1.7)	U (0.33)	U (0.33)	UJ (8.3)
1,2-Dichloroethene (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70	2.4 J- (0.25)	U (0.25)	U (0.25)	310 (2.5)	0.62 J (0.25)	UJ (0.25)	83 J- (1.3)	29 J (13)	870 (50)	150 (0.25)	U (0.25)	U (0.25)	U (0.25)	3.2 J (0.25)	U (0.25)	10 (0.25)	1.5 J (1.3)	U (0.25)	U (0.25)	7.8 (0.25)	2100 J- (6.3)
trans-1,2-Dichloroethene	100	UJ (0.34)	U (0.34)	U (0.34)	U (3.4)	U (0.34)	UJ (0.34)	UJ (1.7)	U (17)	U (68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	U (1.7)	U (0.34)	U (0.34)	U (0.34)	27 J- (8.5)
Ethyl Benzene	700	UJ (0.20)	U (0.20)	U (0.20)	U (2.0)	U (0.20)	UJ (0.20)	UJ (1.0)	U (10)	U (40)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	UJ (0.20)	U (0.20)	U (0.20)	U (1.0)	U (0.20)	U (0.20)	U (0.20)	UJ (5.0)
Methyl tert-butyl ether	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000	UJ (2.7)	U (2.7)	U (2.7)	U (27)	U (2.7)	UJ (2.7)	UJ (14)	U (140)	U (540)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	UJ (2.7)	U (2.7)	U (2.7)	U (14)	U (2.7)	U (2.7)	U (2.7)	UJ (68)
Methylene Chloride	5.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0	UJ (0.35)	U (0.35)	U (0.35)	U (3.5)	U (0.35)	UJ (0.35)	UJ (1.8)	U (18)	U (70)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	UJ (0.35)	U (0.35)	U (0.35)	U (1.8)	U (0.35)	U (0.35)	U (0.35)	UJ (8.8)
Toluene	1000	UJ (0.25)	U (0.25)	U (0.25)	U (2.5)	U (0.25)	UJ (0.25)	UJ (1.3)	U (13)	U (50)	U (0.25)	U (0.25)	U (0.25)	0.61 J (0.25)	UJ (0.25)	U (0.25)	U (0.25)	U (1.3)	U (0.25)	U (0.25)	U (0.25)	UJ (6.3)
Trichloroethene	5.0	0.64 J (0.20)	U (0.20)	U (0.20)	720 (2.0)	28 (0.20)	2.3 J (0.20)	870 J- (1.0)	4300 (10)	33000 (40)	320 J (1.0)	U (0.20)	16 (0.20)	U (0.20)	110 J (0.20)	U (0.20)	340 (1.0)	490 (1.0)	20 (0.20)	U (0.20)	1.4 (0.20)	430 J- (5.0)
Trichlorofluoromethane	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0	UJ (0.40)	U (0.40)	U (0.40)	220 (4.0)	U (0.40)	UJ (0.40)	UJ (2.0)	U (20)	U (80)	U (0.40)	U (0.40)	U (0.40)	0.45 J (0.40)	UJ (0.40)	U (0.40)	U (0.40)	U (2.0)	U (0.40)	U (0.40)	U (0.40)	410 J- (10)
Xylenes (total)	10000	UJ (0.23)	U (0.23)	U (0.23)	U (2.3)	U (0.23)	UJ (0.23)	UJ (1.2)	U (12)	U (46)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	UJ (0.23)	U (0.23)	U (0.23)	U (1.2)	U (0.23)	U (0.23)	U (0.23)	UJ (5.8)
Metals																						
Iron	NE	42000 (100)	NM	NM	3000 (100)	97 J (100)	98 J (100)	56000 (100)	NM	U (100)	3700 (100)	NM	NM	7300 (100)	NM	NM	NM	NM	NM	NM	69000 (100)
Iron, Ferrous	NE	220 J (100)	NM	NM	2900 J (100)	27 J (100)	R	650 J (100)	NM	140 J (100)	3700 J (100)	NM	NM	72 J (100)	NM	NM	NM	NM	NM	NM	43 J (100)
Iron, Ferric	NE	42000 (100)	NM	NM	100 (100)	NM	NM	NM	NM	U (100)	NM	NM	NM	7200 (100)	NM	NM	NM	NM	NM	NM	69000 (100)
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE	NM	NM	NM	NM	NM	NM	NM	610000 (500)	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	49000 (500)
Butyric acid	NE	NM	NM	NM	NM	NM	NM	NM	7600 (500)	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
1-Butanecarboxylic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
Organic Carbon (total)	NE	NM	NM	NM	NM	NM	NM	NM	500000 (1000)	NM	NM	1400 (1000)	NM	NM	11000 (1000)	NM	NM	NM	NM	NM	NM	63000 (1000)
Organic Carbon (dissolved)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9500 (1000)	NM	NM	NM	NM	NM	NM	NM
Chloride	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	120000 (5000)	NM	NM	NM	NM	NM	NM	NM
Formic acid	NE	NM	NM	NM	NM	NM	NM	NM	260000 (500)	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	20000 (500)
n-Hexanoic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
Propionic Acid	NE	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
Pyruvic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
Sodium Persulfate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	UJ (100)
Sulfate	NE	U (5000)	NM	NM	93000 (10000)	560000 (20000)	1800000 J+ (100000)	42000 J (50000)	NM	120000 (20000)	98000 (20000)	NM	NM	NM	U (10000)	NM	NM	NM	NM	NM	NM	53000 (20000)
DL-Lactic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM	U (500)
Nitrate	NE	U (100)	NM	NM	NM	400 (100)	1400 (100)	U (100)	NM	NM	2800 (100)	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	4700 (100)
Nitrate/Nitrite	NE	30 J (100)	NM	NM	NM	410 (100)	1500 F1 (100)	U (100)	NM	NM	2800 (200)	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	5100 (500)
Nitrite	NE	U (100)	NM	NM	NM	13 J (100)	59 J (100)	U (100)	NM	NM	14 J (100)	NM	NM	NM	U (100)	NM	NM	NM	NM	NM	NM	360 (100)
Gasses																						
Acetylene	NE	U (5.0)	NM	NM	U (5.0)	UJ (5.0)	R (5.0)	UJ (5.0)	NM	U (5.0)	U (5.0)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	UJ (5.0)
Methane	NE	12000 (250)	NM	NM	3.0 J (5.0)	24 J- (5.0)	4.6 J (5.0)	2200 (50)	NM	3.6 J (5.0)	U (5.0)	NM	NM	29000 (10)	NM	NM	NM	NM	NM	NM	NM	140 J- (5.0)
Ethane	NE	U (5.0)	NM	NM	U (5.0)	UJ (5.0)	R	UJ (5.0)	NM	1.2 J (5.0)	U (5.0)	NM	NM	U (1.0)	NM	NM	NM	NM	NM	NM	NM	1.4 J (5.0)
Ethene	NE	1.2 J (5.0)	NM	NM	4.7 J (5.0)	UJ (5.0)	R	210 J- (5.0)	NM	U (5.0)	U (5.0)	NM	NM	1.0 (1.0)	NM	NM	NM	NM	NM	NM	NM	730 J (25)
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	U (0.25)	NM	NM	4.4 (0.25)	U (0.25)	NM	U (0.25)	NM	U (0.25)	U (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.5)
Dehalococcoides (DHC) [cells/mL]	NE	2.1 (0.25)	NM	NM	24 (0.25)	1.5 (0.25)	NM	96000 (0.25)	NM	U (0.25)	5.7 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2400000 (0.5)
Dehalobacter spp. [cells/mL]	NE	2000 (0.25)	NM	NM	360 (0.25)	740000 (0.25)	NM	630000 (0.25)	NM	U (0.25)	120000 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	820000 (0.5)
tceA Reductase [cells/mL]	NE	0.36 (0.25)	NM	NM	0.27 (0.25)	1.4 (0.25)	NM	54000 (0.25)	NM	U (0.25)	4.7 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	550000 (0.5)
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	0.3 (0.25)	NM	NM	U (0.25)	0.44 (0.25)	NM	17000 (0.25)	NM	U (0.25)	1.5 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	250000 (0.5)
Field Parameters																						
Dissolved Oxygen	NE	130	110	210	180	120	210	80	780	210	370	170	NM	690	1000	80	620	380	80	590	U (10)	150
Depth to Water [ft BTOC]	NE	12.51	13.05	12.67	11.6	12.43	12.65	10.57	15.01	15.29	9.92	15.2	NM	13.45	19.71	21.68	25.84	21.45	17.11	15.67	11.85	10.15
Iron, Ferrous	NE	7000	NM	NM	3060	70	0	10000	NM	0	4500	NM	NM	2310	NM	NM	NM	NM	NM	NM	NM	10000
Oxidation Reduction Potential [mV]	NE	-172.1	-133	140.2	-75.9	-113	-154.6	-45.3	117.2	44.2	-202	-383.2	NM	14.8	-123.6	-308.6	-47.1	-310	161.2	134.1	-85.5	-184
pH (Field Analysis) [SU]	NE	7.33	8.85	4.86	5.74	5.86	6.67	6.62	5.39	5.55	5.75	5.75	NM	7.31	6.2	6.7	5.89	6.65	5.84	5.25	6.46	6.66
Specific Conductivity (Field Analysis) [uS/cm]	NE	2942	630	477	864	2174	5113	3974	1173	1215	1073	443.5	NM	1322	858	714	1677	836	311.9	143.3	612	3421
Temperature (Field) [C]	NE	26.9	26	22.6	25.9	25.4	24.9	21.7	22.3	22.4	24.5	18.1	NM	19.4	17.9	21.1	22.8	24.2	24.1	22.6	23.5	24.3
Turbidity (Field Parameters) [NTU]	NE	NM	10	NM	0.96	3.97	8.07	16.4	2.27	2.09	7.44	1.08	NM	43.3	4.2	13.6	2.03	35.1	8.72	4.07	344	8.15

Notes:
1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:
µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume			South Plume																		
Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013		MW-199	MW-201	MW-203	MW-204	MW-206	MW-207	MW-208	MW-209	MW-213	RW-1	TMW-16	TMW-19	TMW-25	TMW-26	TMW-27	TMW-30	TMW-30	TMW-32	TMW-36	TMW-36B
Sample Date			10/10/2024	10/10/2024	10/08/2024; 10/11/2024	11/19/2024	10/08/2024	10/07/2024	10/08/2024	10/08/2024	10/08/2024	10/11/2024	10/10/2024; 11/20/2024	10/08/2024	10/09/2024	10/10/2024; 11/20/2024	10/09/2024	10/09/2024	10/09/2024	10/10/2024	10/08/2024	10/08/2024
Comments																			Field Duplicate			
Volatile Organic Compounds																						
Acetone	12000		U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (1900)	U (3.7)	U (3.7)	8.2 J (3.7)	U (3.7)	UJ (3.7)	U (3.7)	U (3.7)	UJ (3.7)	U (3.7)	U (3.7)
Benzene	5.0		U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (140)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)
Bromochloromethane	NE		U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (170)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)
Bromoform	80		U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (300)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	UJ (0.59)	U (0.59)	U (0.59)	UJ (0.59)	U (0.59)	U (0.59)
2-Butanone	4900		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100		0.88 J (0.15)	U (0.15)	U (0.15)	3.0 (0.15)	U (0.15)	0.41 J (0.15)	U (0.15)	U (0.15)	U (0.15)	U (75)	0.32 J (0.15)	U (0.15)	U (0.15)	U (0.15)	UJ (0.15)	U (0.15)	0.70 J (0.15)	U (0.15)	U (0.15)	U (0.15)
Chloroethane	12000		U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (2300)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	UJ (4.6)	U (4.6)	U (4.6)	UJ (4.6)	U (4.6)	U (4.6)
Chloroform	80		U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (140)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)	UJ (0.27)	U (0.27)	U (0.27)
Dibromochloromethane	80		U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (200)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	UJ (0.39)	U (0.39)	U (0.39)	UJ (0.39)	U (0.39)	U (0.39)
1,2-Dichlorobenzene	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4		U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (170)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)
1,1-Dichloroethene	7.0		U (0.33)	U (0.33)	0.64 J (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (170)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	UJ (0.33)	U (0.33)	U (0.33)	UJ (0.33)	0.36 J (0.33)	U (0.33)
1,2-Dichloroethene (total)	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.0 (0.25)	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70		7.8 (0.25)	U (0.25)	8.2 (0.25)	1.9 (0.25)	0.77 J (0.25)	4.1 (0.25)	U (0.25)	U (0.25)	U (0.25)	42000 (130)	1.5 (0.25)	3.8 (0.25)	0.99 J (0.25)	1.0 (0.25)	UJ (0.25)	U (0.25)	U (0.25)	5.7 J (0.25)	51 (0.25)	U (0.25)
trans-1,2-Dichloroethene	100		U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (170)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)	UJ (0.34)	U (0.34)	U (0.34)
Ethyl Benzene	700		U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (100)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	UJ (0.20)	U (0.20)	U (0.20)	UJ (0.20)	U (0.20)	U (0.20)
Methyl tert-butyl ether	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000		U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (1400)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	UJ (2.7)	U (2.7)	U (2.7)	UJ (2.7)	U (2.7)	U (2.7)
Methylene Chloride	5.0		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0		U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (180)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	UJ (0.35)	U (0.35)	U (0.35)	UJ (0.35)	U (0.35)	U (0.35)
Toluene	1000		U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (130)	0.28 J (0.25)	U (0.25)	U (0.25)	1.1 (0.25)	UJ (0.25)	2.9 (0.25)	2.8 (0.25)	UJ (0.25)	U (0.25)	U (0.25)
Trichloroethene	5.0		82 (0.20)	U (0.20)	290 (1.0)	32 (0.20)	7.9 (0.20)	26 (0.20)	U (0.20)	U (0.20)	U (0.20)	71000 (100)	6.6 (0.20)	78 (0.20)	4.8 (0.20)	2.9 (0.20)	UJ (0.20)	2.7 (0.20)	3.1 (0.20)	2.5 J- (0.20)	75 (0.20)	U (0.20)
Trichlorofluoromethane	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0		U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (200)	3.0 (0.40)	U (0.40)	U (0.40)	1.1 (0.40)	UJ (0.40)	U (0.40)	0.60 J (0.40)	UJ (0.40)	U (0.40)	U (0.40)
Xylenes (total)	10000		U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (120)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	UJ (0.23)	U (0.23)	U (0.23)	UJ (0.23)	U (0.23)	U (0.23)
Metals																						
Iron	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56000 (100)	66 J (100)	16000 (100)	12000 (100)	NM	NM	NM	8400 (100)	4500 (100)	3100 (100)
Iron, Ferrous	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51 J (100)	R	42 J (100)	34 J (100)	NM	NM	NM	240 J (100)	650 J (100)	3000 J (100)
Iron, Ferric	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56000 (100)	U (100)	16000 (100)	12000 (100)	NM	NM	NM	8200 (100)	3900 (100)	100 (100)
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Butyric acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7000 (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
1-Butanecarboxylic Acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Organic Carbon (total)	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8100 (1000)	1100 (1000)	7700 (1000)	6400 (1000)	NM	NM	NM	1300 (1000)	3300 (1000)	2700 (1000)
Organic Carbon (dissolved)	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	5700 (1000)	1200 (1000)	7500 (1000)	5200 (1000)	NM	NM	NM	1500 (1000)	3000 (1000)	2600 (1000)
Chloride	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	100000 (5000)	130000 (5000)	84000 (2500)	170000 F1 (5000)	NM	NM	NM	62000 (2500)	180000 (10000)	490000 (25000)
Formic acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
n-Hexanoic acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Propionic Acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Pyruvic Acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Sodium Persulfate	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33000 (10000)	18000 (10000)	7100 (5000)	42000 (10000)	NM	NM	NM	34000 (5000)	U (20000)	U (50000)
DL-Lactic Acid	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	U (500)	U (500)	U (500)	NM	NM	NM	UJ (500)	U (500)	U (500)
Nitrate	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	710 (100)	23000 (100)	64 J (100)	U (100)	NM	NM	NM	U (100)	1700 (100)	560 (100)
Nitrate/Nitrite	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	810 (100)	23000 (5000)	97 J (100)	41 J (100)	NM	NM	NM	63 J (100)	1800 (1000)	610 (100)
Nitrite	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	99 J (100)	U (100)	U (100)	69 J (100)	NM	NM	NM	54 J (100)	U (100)	U (100)
Gasses																						
Acetylene	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM
Methane	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9900 (250)	U (1.0)	14000 (5.0)	13000 (5.0)	NM	NM	NM	1500 (25)	11000 (5.0)	920 (1.0)
Ethane	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	11 (5.0)	U (1.0)	U (1.0)	1.6 (1.0)	NM	NM	NM	U (5.0)	U (1.0)	U (1.0)
Ethene	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	2.0 J (5.0)	U (1.0)	1.8 (1.0)	1.7 (1.0)	NM	NM	NM	U (5.0)	U (1.0)	U (1.0)
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (0.25)	NM	NM
Dehalocaccoides (DHC) [cells/mL]	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	19 (0.25)	NM	NM
Dehalobacter spp. [cells/mL]	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1200 (0.25)	NM	NM
tceA Reductase [cells/mL]	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9 (0.25)	NM	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.2 (0.25)	NM	NM
Field Parameters																						
Dissolved Oxygen	NE		50	120	190	U (10)	350	80	140	240	120	90	90	190	U (10)	60	80	100	NM	110	120	250
Depth to Water [ft BTOC]	NE		9.31	21.4	23.83	21.48	18.05	5.14	22.7	21.15	22.95	10	11.67	25.34	15.23	15.98	10.8	13.3	NM	11.3	25.74	25.84
Iron, Ferrous	NE		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	600	0	0	NM	NM	NM	NM	8700	3750	3170
Oxidation Reduction Potential [mV]	NE		-280.2	136.6	-52.6	362.2	-285.3	-97.2	103.8	-86.1	-350.2	-294.2	-150.8	-480.7	-139.7	-151.4	-154.2	-588.7	NM	-210.9	-8.1	-57.3
pH (Field Analysis) [SU]	NE		6.68	6.14	5.11	5.59	7.16	5.73	5.97	6.22	6.4	7.18	6.81	6.29	6.85	6.92	5.89	7.63	NM	6.63	6.58	5.72
Specific Conductivity (Field Analysis) [uS/cm]	NE		788	487	804	674	601	719	566	262.5	368.8	1439	938	752	857	1281	259.4	2055	NM	596	1113	1794
Temperature (Field) [C]	NE		21.3	21.3	21.2	18.4	22.3	26.3	21	25	24.1	25.1	17.6	21	18.7	18.6	18.3	18.9	NM	19.5	20.8	20.5
Turbidity (Field Parameters) [NTU]	NE		1.43	0.74	2.29	22.3	5.56	9.8	90.6	43.8	82.6	1.63	6.22	7.35	195	5.83	20.6	780	NM	2.52	4.32	4.07

Notes:
1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:
µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume			East Plume																			
Location	Remedial Action Levels per ADEQ RADD Issued Dec 2013	HP-27	HP-27	HP-28	HP-29	HP-30	HP-31	HP-32	MW-87	MW-89	MW-91	MW-96	MW-96	MW-97	MW-98	MW-99	MW-183R	MW-184	MW-184	MW-185	MW-200	MW-202
Sample Date		06/17/2024	06/17/2024	06/18/2024	06/18/2024	06/18/2024	06/18/2024	06/20/2024	10/11/2024	10/09/2024	10/10/2024	10/10/2024	10/10/2024	10/07/2024	10/08/2024	10/09/2024	10/09/2024	10/08/2024	10/08/2024	10/10/2024	10/07/2024	10/09/2024
Comments			Field Duplicate										Field Duplicate						Field Duplicate			
Volatile Organic Compounds																						
Acetone	12000	UJ (11.3)	U (11.3)	361 (11.3)	U (11.3)	12.6 J (11.3)	U (11.3)	U (11.3)	62 J+ (7.4)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (7.4)
Benzene	5.0	U (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)	U (0.0941)	U (0.54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.54)
Bromochloromethane	NE	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.128)	U (0.68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.68)
Bromoform	80	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (0.129)	U (1.2)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (1.2)
2-Butanone	4900	U (1.19)	U (1.19)	1.79 J (1.19)	U (1.19)	U (1.19)	U (1.19)	U (1.19)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720	U (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)	U (0.0962)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.116)	U (0.30)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.30)
Chloroethane	12000	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (0.192)	U (9.2)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (9.2)
Chloroform	80	U (0.111)	U (0.111)	U (0.111)	U (0.111)	U (0.111)	U (0.111)	U (0.111)	U (0.54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (0.54)
Dibromochloromethane	80	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.140)	U (0.78)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (0.78)
1,2-Dichlorobenzene	NE	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	U (0.107)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	U (0.120)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.100)	U (0.66)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.66)
1,1-Dichloroethene	7.0	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	U (0.188)	2.7 (0.66)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	1.6 (0.33)	U (0.33)	3.1 (0.66)
1,2-Dichloroethene (total)	NE	U (0.656)	U (0.656)	U (0.656)	U (0.656)	U (0.656)	3.36 (0.656)	U (0.656)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70	U (0.126)	U (0.126)	U (0.126)	U (0.126)	U (0.126)	3.36 (0.126)	U (0.126)	15 (0.50)	U (0.25)	24 (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	12 (0.25)	U (0.25)	U (0.25)	U (0.25)	8.1 (0.25)	3.6 (0.25)	32 (0.50)
trans-1,2-Dichloroethene	100	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.149)	U (0.68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (0.68)
Ethyl Benzene	700	U (0.137)	U (0.137)	U (0.137)	U (0.137)	U (0.137)	U (0.137)	U (0.137)	U (0.40)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.40)
Methyl tert-butyl ether	NE	U (0.101)	U (0.101)	U (0.101)	U (0.101)	U (0.101)	U (0.101)	U (0.101)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000	U (0.478)	U (0.478)	U (0.478)	U (0.478)	U (0.478)	U (0.478)	U (0.478)	U (5.4)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (5.4)
Methylene Chloride	5.0	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	U (0.430)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	U (0.300)	3.5 (0.70)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (0.70)
Toluene	1000	U (0.278)	U (0.278)	U (0.278)	U (0.278)	U (0.278)	U (0.278)	U (0.278)	U (0.50)	U (0.25)	1.2 (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	0.42 J (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.50)
Trichloroethene	5.0	U (0.190)	U (0.190)	U (0.190)	U (0.190)	U (0.190)	16.6 (0.190)	0.477 J (0.190)	280 (0.40)	3.2 (0.20)	3.2 J (0.20)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	5.2 (0.20)	U (0.20)	2.2 (0.20)	2.1 (0.20)	180 (0.20)	38 (0.20)	350 (0.40)
Trichlorofluoromethane	NE	U (0.160)	U (0.160)	U (0.160)	U (0.160)	U (0.160)	0.789 J (0.160)	U (0.160)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.234)	U (0.80)	U (0.40)	1.5 (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.80)
Xylenes (total)	10000	U (0.174)	U (0.174)	U (0.174)	U (0.174)	U (0.174)	U (0.174)	U (0.174)	U (0.46)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (0.46)
Metals																						
Iron	NE	NM	NM	NM	NM	NM	NM	NM	220 (100)	150 (100)	19000 (100)	NM	NM	NM	NM	7000 (100)	NM	NM	NM	20 J (100)	NM	NM
Iron, Ferrous	NE	NM	NM	NM	NM	NM	NM	NM	R	28 J (100)	34 J (100)	NM	NM	NM	NM	R	NM	NM	NM	R	NM	NM
Iron, Ferric	NE	NM	NM	NM	NM	NM	NM	NM	220 (100)	120 (100)	19000 (100)	NM	NM	NM	NM	7000 (100)	NM	NM	NM	NM	NM	NM
Monitored Natural Attenuation Parameters (Laboratory)																						
Acetic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	1500 (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Butyric acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	520 (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
1-Butanecarboxylic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Organic Carbon (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	18000 (1000)	NM	NM	NM	NM	17000 (1000)	NM	NM	NM	NM	NM	NM
Organic Carbon (dissolved)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	2200 (1000)	NM	NM	NM	NM	17000 (1000)	NM	NM	NM	NM	NM	NM
Chloride	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	51000 (2500)	NM	NM	NM	NM	58000 (2500)	NM	NM	NM	NM	NM	NM
Formic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
n-Hexanoic acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Propionic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Pyruvic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Sodium Persulfate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	NM	NM	NM	NM	NM	NM	NM	U (100)	U (100)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE	NM	NM	NM	NM	NM	NM	NM	10000 (5000)	U (5000)	U (5000)	NM	NM	NM	NM	16000 (5000)	NM	NM	NM	9200 (5000)	NM	NM
DL-Lactic Acid	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	U (500)	NM	NM	NM	NM	NM	NM
Nitrate	NE	NM	NM	NM	NM	NM	NM	NM	1400 (100)	NM	U (100)	NM	NM	NM	NM	U (100)	NM	NM	NM	4700 (100)	NM	NM
Nitrate/Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	1400 (100)	NM	25 J (100)	NM	NM	NM	NM	U (100)	NM	NM	NM	4700 (500)	NM	NM
Nitrite	NE	NM	NM	NM	NM	NM	NM	NM	26 J (100)	NM	110 (100)	NM	NM	NM	NM	U (100)	NM	NM	NM	U (100)	NM	NM
Gasses																						
Acetylene	NE	NM	NM	NM	NM	NM	NM	NM	U (5.0)	U (5.0)	U (5.0)	NM	NM	NM	NM	NM	NM	NM	NM	U (5.0)	NM	NM
Methane	NE	NM	NM	NM	NM	NM	NM	NM	U (5.0)	3.4 J (5.0)	13000 (250)	NM	NM	NM	NM	4600 (2.0)	NM	NM	NM	3.2 J (5.0)	NM	NM
Ethane	NE	NM	NM	NM	NM	NM	NM	NM	U (5.0)	U (5.0)	U (5.0)	NM	NM	NM	NM	U (1.0)	NM	NM	NM	U (5.0)	NM	NM
Ethene	NE	NM	NM	NM	NM	NM	NM	NM	U (5.0)	U (5.0)	U (5.0)	NM	NM	NM	NM	U (1.0)	NM	NM	NM	U (5.0)	NM	NM
Molecular Analyses																						
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	U (0.42)	U (0.25)	U (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalococcoides (DHC) [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	U (0.42)	0.18 J (0.25)	28 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Dehalobacter spp. [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	1.4 (0.42)	5.6 (0.25)	7400 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
tceA Reductase [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	U (0.42)	U (0.25)	12 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	NM	NM	NM	NM	NM	NM	NM	U (0.42)	U (0.25)	5 (0.25)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Field Parameters																						
Dissolved Oxygen	NE	NM	NM	NM	NM	NM	NM	NM	U (10)	50	300	540	NM	10200	240	210	350	160	NM	540	1270	420
Depth to Water [ft BTOC]	NE	NM	NM	NM	NM	NM	NM	NM	11.83	10.47	12.11	8.93	NM	9	12.43	10.05	15.3	9.68	NM	14.4	11.01	10.2
Iron, Ferrous	NE	NM	NM	NM	NM	NM	NM	NM	2970	0	2520	0	NM	NM	NM	1470	NM	NM	NM	NM	0	NM
Oxidation Reduction Potential [mV]	NE	NM	NM	NM	NM	NM	NM	NM	211.3	240.5	-135.5	-98.3	NM	75.7	-49.6	-388.9	21.6	118.2	NM	-133.8	12.5	-344.2
pH (Field Analysis) [SU]	NE	NM	NM	NM	NM	NM	NM	NM	5.7	4.66	7.11	5.72	NM	6.74	9.66	7.36	6.02	5.66	NM	6.06	6.34	6.33
Specific Conductivity (Field Analysis) [uS/cm]	NE	NM	NM	NM	NM	NM	NM	NM	460.2	891	1127	225.1	NM	243.5	431.2	1269	219.6	137.6	NM	374.6	225.5	249.9
Temperature (Field) [C]	NE	NM	NM	NM	NM	NM	NM	NM	25.8	25.9	24.1	23.2	NM	24.6	23.6	22.3	24.5	22	NM	26.5	20.7	21.1
Turbidity (Field Parameters) [NTU]	NE	NM	NM	NM	NM	NM	NM	NM	19.1	6.06	4.97	1.91	NM	51.3	0.23	89.7	7.39	11.3	NM	5.98	2.18	52.6

Notes:
1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:
µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Whirlpool Facility - Fort Smith, Arkansas

Plume	Remedial Action Levels per ADEQ RADD Issued Dec 2013	East Plume										
Location		MW-205	MW-210	MW-211	MW-212	MW-214	MW-215	MW-216	MW-217	MW-218	MW-219	TMW-34
Sample Date		10/10/2024	12/16/2024	10/07/2024	10/08/2024	12/03/2024	10/11/2024; 12/04/2024	12/03/2024	12/03/2024	12/03/2024	12/03/2024	10/10/2024
Comments												
Volatile Organic Compounds												
Acetone	12000	U (7.4)	U (3.7)	U (3.7)	U (3.7)	U (3.7)	U (37)	U (3.7)	U (3.7)	U (37)	U (19)	15 (3.7)
Benzene	5.0	U (0.54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (2.7)	U (0.27)	U (0.27)	U (2.7)	U (1.4)	U (0.27)
Bromochloromethane	NE	U (0.68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (3.4)	U (0.34)	U (0.34)	U (3.4)	U (1.7)	U (0.34)
Bromoform	80	U (1.2)	U (0.59)	U (0.59)	U (0.59)	U (0.59)	U (5.9)	U (0.59)	U (0.59)	U (5.9)	U (3.0)	U (0.59)
2-Butanone	4900	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Carbon Disulfide	720	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Chlorobenzene	100	U (0.30)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (1.5)	U (0.15)	U (0.15)	U (1.5)	U (0.75)	U (0.15)
Chloroethane	12000	U (9.2)	U (4.6)	U (4.6)	U (4.6)	U (4.6)	U (46)	U (4.6)	U (4.6)	U (46)	U (23)	U (4.6)
Chloroform	80	U (0.54)	U (0.27)	U (0.27)	U (0.27)	U (0.27)	U (2.7)	U (0.27)	U (0.27)	U (2.7)	U (1.4)	U (0.27)
Dibromochloromethane	80	U (0.78)	U (0.39)	U (0.39)	U (0.39)	U (0.39)	U (3.9)	U (0.39)	U (0.39)	U (3.9)	U (2.0)	U (0.39)
1,2-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,4-Dichlorobenzene	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
1,1-Dichloroethane	2.4	U (0.66)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (3.3)	U (0.33)	U (0.33)	U (3.3)	U (1.7)	U (0.33)
1,1-Dichloroethene	7.0	5.3 (0.66)	U (0.33)	U (0.33)	U (0.33)	1.0 (0.33)	10 (3.3)	2.0 (0.33)	U (0.33)	9.0 J (3.3)	6.6 (1.7)	1.8 (0.33)
1,2-Dichloroethene (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
cis-1,2-Dichloroethene	70	100 (0.50)	U (0.25)	5.6 (0.25)	U (0.25)	47 (0.25)	45 (2.5)	38 (0.25)	U (0.25)	54 (2.5)	87 (1.3)	150 (0.25)
trans-1,2-Dichloroethene	100	U (0.68)	U (0.34)	U (0.34)	U (0.34)	U (0.34)	U (3.4)	U (0.34)	U (0.34)	U (3.4)	U (1.7)	U (0.34)
Ethyl Benzene	700	U (0.40)	U (0.20)	U (0.20)	U (0.20)	U (0.20)	U (2.0)	U (0.20)	U (0.20)	U (2.0)	U (1.0)	U (0.20)
Methyl tert-butyl ether	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4-Methyl-2-pentanone	1000	U (5.4)	U (2.7)	U (2.7)	U (2.7)	U (2.7)	U (27)	U (2.7)	U (2.7)	U (27)	U (14)	U (2.7)
Methylene Chloride	5.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Tetrachloroethene	5.0	U (0.70)	U (0.35)	U (0.35)	U (0.35)	U (0.35)	U (3.5)	U (0.35)	U (0.35)	U (3.5)	3.4 J (1.8)	U (0.35)
Toluene	1000	U (0.50)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (2.5)	U (0.25)	2.9 (0.25)	U (2.5)	U (1.3)	U (0.25)
Trichloroethene	5.0	690 (2.0)	U (0.20)	35 (0.20)	U (0.20)	28 (0.20)	950 (2.0)	620 (1.0)	0.30 J (0.20)	1300 (2.0)	960 (2.0)	16 (0.20)
Trichlorofluoromethane	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Vinyl Chloride	2.0	U (0.80)	U (0.40)	U (0.40)	U (0.40)	1.1 (0.40)	U (4.0)	0.79 J (0.40)	U (0.40)	U (4.0)	U (2.0)	1.3 (0.40)
Xylenes (total)	10000	U (0.46)	U (0.23)	U (0.23)	U (0.23)	U (0.23)	U (2.3)	U (0.23)	U (0.23)	U (2.3)	U (1.2)	U (0.23)
Metals												
Iron	NE	NM	NM	NM	NM	17000 (100)	690 (100)	1700 (100)	1200 (100)	250 (100)	150 (100)	14000 (100)
Iron, Ferrous	NE	NM	NM	NM	NM	12000 J (1000)	R	1500 J (100)	500 J (100)	U (100)	U (100)	R
Iron, Ferric	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	14000 (100)
Monitored Natural Attenuation Parameters (Laboratory)												
Acetic acid	NE	NM	NM	NM	NM	1600 (500)	U (500)	U (500)	NM	NM	NM	3600 (500)
Butyric acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
1-Butanecarboxylic Acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
Organic Carbon (total)	NE	NM	NM	NM	NM	2600 (1000)	2300 (1000)	1100 (1000)	NM	NM	NM	8300 (1000)
Organic Carbon (dissolved)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	6500 (1000)
Chloride	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51000 (2500)
Formic acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
n-Hexanoic acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
Propionic Acid	NE	NM	NM	NM	NM	430 J (500)	U (500)	U (500)	NM	NM	NM	690 (500)
Pyruvic Acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
Sodium Persulfate	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfide (total)	NE	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Sulfate	NE	NM	NM	NM	NM	3700 (1000)	4700 J (5000)	4800 (1000)	42000 (1000)	9700 (1000)	8800 (1000)	3100 J (5000)
DL-Lactic Acid	NE	NM	NM	NM	NM	U (500)	U (500)	U (500)	NM	NM	NM	U (500)
Nitrate	NE	NM	NM	NM	NM	15 J (100)	330 (100)	280 (100)	15 J (100)	2000 (100)	2000 (100)	U (100)
Nitrate/Nitrite	NE	NM	NM	NM	NM	60 J (100)	560 (100)	300 (100)	15 J (100)	2100 J- (200)	2000 (200)	38 J (100)
Nitrite	NE	NM	NM	NM	NM	U (100)	230 B (100)	U (100)	U (100)	U (100)	U (100)	120 (100)
Gasses												
Acetylene	NE	NM	NM	NM	NM	U (5.0)	U (5.0)	U (5.0)	UJ (5.0)	U (5.0)	UJ (5.0)	NM
Methane	NE	NM	NM	NM	NM	4000 (100)	U (5.0)	44 (5.0)	37 J (5.0)	4.5 J (5.0)	UJ (5.0)	5700 (5.0)
Ethane	NE	NM	NM	NM	NM	U (5.0)	2.2 J (5.0)	4.6 J (5.0)	UJ (5.0)	5.0 (5.0)	2.2 J (5.0)	U (1.0)
Ethene	NE	NM	NM	NM	NM	U (5.0)	3.6 J (5.0)	3.7 J (5.0)	UJ (5.0)	6.7 (5.0)	2.8 J (5.0)	1.1 (1.0)
Molecular Analyses												
BAV1 Vinyl Chloride Reductase [cells/mL]	NE	NM	NM	NM	NM	U (0.2)	U (0.83)	U (0.25)	U (0.2)	U (0.25)	U (0.25)	NM
Dehalococcoides (DHC) [cells/mL]	NE	NM	NM	NM	NM	18 (0.2)	20 (0.83)	3.1 (0.25)	2.1 (0.2)	0.16 J (0.25)	U (0.25)	NM
Dehalobacter spp. [cells/mL]	NE	NM	NM	NM	NM	100000 (0.2)	900 (0.83)	3700 (0.25)	8600 (0.2)	17000 (0.25)	180 (0.25)	NM
tceA Reductase [cells/mL]	NE	NM	NM	NM	NM	12 (0.2)	21 (0.83)	1.5 (0.25)	U (0.2)	U (0.25)	U (0.25)	NM
Vinyl Chloride Reductase (vrcA) [cells/mL]	NE	NM	NM	NM	NM	12 (0.2)	9.7 (0.83)	1.1 (0.25)	U (0.2)	U (0.25)	U (0.25)	NM
Field Parameters												
Dissolved Oxygen	NE	140	480	670	420	450	80	420	260	450	400	60
Depth to Water [ft BTOC]	NE	15.05	12.58	12.52	11.02	14.5	11.88	14.2	13.58	16.4	15.95	12.35
Iron, Ferrous	NE	0	NM	NM	NM	1460	0	890	190	220	0	7000
Oxidation Reduction Potential [mV]	NE	-123.4	128.2	-4	115.1	-109.2	66.8	-31.1	63.9	71.1	90.5	-290
pH (Field Analysis) [SU]	NE	6.01	6.25	9.52	6.12	6.73	6.41	6.62	6.53	6.72	6.27	6.9
Specific Conductivity (Field Analysis) [uS/cm]	NE	351.3	241.8	383.5	250.3	526	376.5	364.8	524	388.7	340.1	737
Temperature (Field) [C]	NE	21.9	19.8	20.2	21.6	20.9	21.6	19.6	22.8	19.4	19.6	24
Turbidity (Field Parameters) [NTU]	NE	4.79	242	14.1	28.7	56.7	56.9	19.2	11.6	16.01	15.2	10.9

Notes:

1 All concentrations are presented in ug/L.
2 Only VOC compounds with at least one detection are shown. All other compounds, even with no detection, are shown.
3 Concentrations that exceed the Remedial Action Levels per ADEQ RADD Issued Dec 2013 are double underlined.
4 Ferrous Iron in the Metals section was analyzed by the laboratory.

Abbreviations:

µg/L = Micrograms per liter
bgs = Below ground surface
VOC = Volatile organic compound
F -- MS or MSD exceeds the control limits.
F1 -- MS and/or MSD Recovery is outside acceptance limits.
F2 -- MS/MSD RPD exceeds control limits.
H -- Sample was prepped for analysis beyond the specified holding time.
B = Analyte found in associated blank.
R = Result rejected by the validator.
U = Not detected.
J = Estimated concentration.
+ = Estimated value biased high.
- = Estimated value biased low.
( ) = Method detection limit for VOCs; reporting detection limit for other analyses.
RADD = Remedial action decision document
ADEQ= Arkansas Department of Environmental Quality
NE = Not established
NM = Not measured

TABLE 8
SUMMARY OF TREND ANALYSIS (2009 - 2023)
Whirlpool Facility - Fort Smith, Arkansas

				Trichloroethene				cis-1,2-Dichloroethene				Vinyl Chloride			
Well ID	**Start Date**	**End Date**	**Number of Samples**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**
North Plume Wells															
IW-73	4/23/2009	10/10/2024	36	60	36	1.80E-01	No Trend	-36	36	2.94E-01	No Trend	-120	21	2.65E-02	Decreasing
IW-77	4/23/2009	10/10/2024	49	-342	49	4.24E-04	Decreasing	-324	49	7.86E-04	Decreasing	-414	5	1.13E-05	Decreasing
IW-78	10/25/2011	11/19/2024	21	-42	21	6.01E-02	No Trend	-39	15	7.38E-02	No Trend	24	0	NC	NC
MW-194	8/5/2016	11/20/2024	19	-66	19	1.14E-02	Decreasing	115	17	3.26E-05	Increasing	69	0	NC	NC
MW-195	8/5/2016	10/8/2024	26	105	17	1.75E-05	Increasing	95	5	1.35E-04	Increasing	61	0	NC	NC
MW-196	8/5/2016	11/19/2024	18	65	3	NC	NC	61	0	NC	NC	61	0	NC	NC
MW-39/MW-39R	4/24/2009	10/7/2024	36	-234	3	NC	NC	-188	0	NC	NC	-100	0	NC	NC
MW-40/MW-40R	4/24/2009	10/10/2024	40	-372	6	1.05E-06	Decreasing	-345	2	NC	NC	-155	0	NC	NC
MW-46R	4/25/2009	11/19/2024	50	-146	49	5.16E-02	No Trend	55	49	2.72E-01	No Trend	-273	33	7.25E-04	Decreasing
MW-50/MW-50R	4/24/2009	10/9/2024	35	46	20	2.60E-01	No Trend	-158	4	1.14E-02	Decreasing	-113	0	NC	NC
MW-55/MW-55R	4/24/2009	11/20/2024	34	226	33	1.20E-05	Increasing	21	23	3.53E-01	No Trend	-53	10	1.62E-01	No Trend
MW-56/MW-56R	4/24/2009	10/10/2024	29	168	29	4.82E-04	Increasing	88	26	4.28E-02	Increasing	-45	15	1.92E-01	No Trend
MW-57/MW-57R	4/24/2009	10/11/2024	34	130	34	1.82E-02	Increasing	226	34	1.32E-04	Increasing	21	19	3.72E-01	No Trend
MW-58/MW-58R	4/25/2009	10/11/2024	38	-291	37	2.62E-08	Decreasing	-173	38	6.26E-04	Decreasing	-308	28	3.97E-09	Decreasing
MW-60/MW-60R	4/24/2009	10/8/2024	35	-261	4	8.36E-05	Decreasing	-183	0	NC	NC	-99	0	NC	NC
MW-61/MW-61R	4/24/2009	10/9/2024	44	107	40	9.97E-02	No Trend	-34	25	3.44E-01	No Trend	-17	8	4.21E-01	No Trend
MW-62/MW-62R	4/24/2009	10/7/2024	35	-214	6	6.26E-04	Decreasing	-170	1	NC	NC	-70	0	NC	NC
MW-63/MW-63R	4/24/2009	10/9/2024	39	-79	38	1.34E-01	No Trend	-172	28	7.42E-03	Decreasing	-125	1	NC	NC
MW-68	1/15/2009	10/10/2024	35	-244	5	2.08E-04	Decreasing	-197	0	NC	NC	-113	0	NC	NC
MW-82	5/28/2014	10/10/2024	20	-13	19	3.25E-01	No Trend	-9	17	3.81E-01	No Trend	-25	1	NC	NC
RW-69	1/15/2009	10/10/2024	41	-396	41	2.07E-06	Decreasing	-104	40	1.15E-01	No Trend	-153	20	3.24E-02	Decreasing
TMW-10	9/18/2015	10/10/2024	25	-200	25	3.99E-07	Decreasing	-78	24	2.81E-02	Decreasing	183	17	2.28E-06	Increasing
TMW-11	9/18/2015	10/11/2024	23	-183	15	5.97E-07	Decreasing	-138	16	1.36E-04	Decreasing	41	7	1.39E-01	No Trend
TMW-12	4/27/2017	10/10/2024	20	-79	20	5.67E-05	Decreasing	-91	20	4.01E-06	Decreasing	-61	18	1.46E-03	Decreasing
TMW-14	4/27/2017	10/8/2024	12	-1	12	5.00E-01	No Trend	36	8	3.14E-03	Increasing	22	0	NC	NC
TMW-20	10/10/2017	10/7/2024	14	29	2	NC	NC	32	1	NC	NC	28	0	NC	NC
TMW-21	10/10/2017	10/9/2024	18	-111	18	1.55E-05	Decreasing	-92	17	2.81E-04	Decreasing	67	15	6.07E-03	Increasing
TMW-22/TMW-22R	10/13/2017	10/10/2024	17	-84	17	3.14E-04	Decreasing	22	17	1.94E-01	No Trend	77	13	8.44E-04	Increasing
TMW-23	10/13/2017	11/20/2024	19	32	19	8.14E-02	No Trend	64	19	2.19E-03	Increasing	47	0	NC	NC
TMW-24	10/10/2017	10/11/2024	16	-44	16	2.64E-02	Decreasing	-9	16	3.59E-01	No Trend	-13	8	2.92E-01	No Trend
TMW-29	10/12/2017	10/8/2024	19	42	2	NC	NC	37	0	NC	NC	45	0	NC	NC
TMW-35	10/22/2019	10/8/2024	12	2	0	NC	NC	-4	0	NC	NC	12	0	NC	NC
East Plume Wells															
MW-183/MW-183R	10/6/2015	10/9/2024	21	-137	19	5.06E-06	Decreasing	-84	7	3.09E-03	Decreasing	83	0	NC	NC
MW-184	10/5/2015	10/8/2024	26	118	13	3.24E-05	Increasing	107	4	1.75E-04	Increasing	83	0	NC	NC
MW-185	9/16/2015	10/10/2024	24	175	21	4.43E-07	Increasing	150	17	9.10E-06	Increasing	106	4	8.68E-04	Increasing
MW-87	6/25/2014	10/11/2024	23	-107	23	6.82E-04	Decreasing	-150	23	3.41E-06	Decreasing	-56	12	4.74E-02	Decreasing
MW-89	6/24/2014	10/9/2024	17	-97	17	3.78E-05	Decreasing	16	11	2.65E-01	No Trend	-18	0	NC	NC
MW-91	6/25/2014	10/10/2024	31	-103	31	8.59E-03	Decreasing	124	31	2.04E-03	Increasing	33	25	2.27E-01	No Trend
MW-96	10/22/2014	10/10/2024	34	25	1	NC	NC	20	0	NC	NC	14	0	NC	NC
MW-97	10/22/2014	10/7/2024	25	25	1	NC	NC	14	1	NC	NC	22	0	NC	NC
MW-98	10/29/2014	10/8/2024	25	1	7	5.00E-01	No Trend	21	2	NC	NC	22	0	NC	NC
MW-99	10/22/2014	10/9/2024	23	92	14	7.75E-03	Increasing	149	14	3.86E-05	Increasing	17	0	NC	NC
MW-200	7/14/2020	10/7/2024	10	41	8	1.73E-04	Increasing	32	6	2.69E-03	Increasing	5	0	NC	NC
MW-202	7/15/2020	10/9/2024	10	45	10	4.15E-05	Increasing	45	10	4.15E-05	Increasing	5	0	NC	NC
MW-205	10/21/2021	10/10/2024	7	19	7	3.43E-03	Increasing	-15	7	1.77E-02	Decreasing	-2	6	4.40E-01	No Trend
TMW-34	11/14/2018	10/10/2024	13	36	13	1.64E-02	Increasing	44	13	4.35E-03	Increasing	21	1	NC	NC
South Plume Wells															
ITMW-1/ITMW-1R	10/27/2011	10/10/2024	27	3	27	4.80E-01	No Trend	36	27	1.92E-01	No Trend	21	1	NC	NC
ITMW-10	4/27/2009	10/11/2024	36	126	36	1.29E-02	Increasing	-326	36	3.33E-09	Decreasing	-342	34	5.67E-10	Decreasing
ITMW-16	11/6/2010	10/10/2024	25	-136	3	NC	NC	-112	2	NC	NC	-20	0	NC	NC
ITMW-18	4/27/2009	10/11/2024	34	-174	34	3.16E-04	Decreasing	-155	33	1.16E-03	Decreasing	-171	7	3.17E-04	Decreasing
ITMW-19	4/27/2009	10/11/2024	36	-175	36	9.50E-04	Decreasing	-147	32	4.54E-03	Decreasing	-194	9	2.48E-04	Decreasing
ITMW-2/ITMW-2R	11/3/2010	10/8/2024	27	-100	11	9.82E-03	Decreasing	-131	8	1.13E-03	Decreasing	-14	0	NC	NC
ITMW-20	10/29/2009	10/7/2024	45	-253	4	1.27E-04	Decreasing	-186	0	NC	NC	-78	1	NC	NC
ITMW-21	10/27/2009	10/10/2024	42	-359	42	1.84E-07	Decreasing	-155	22	1.40E-02	Decreasing	-44	0	NC	NC
ITMW-5	4/27/2009	10/11/2024	28	188	28	1.87E-05	Increasing	-107	28	9.74E-03	Decreasing	-108	20	8.72E-03	Decreasing

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TABLE 8
SUMMARY OF TREND ANALYSIS (2009 - 2023)
Whirlpool Facility - Fort Smith, Arkansas

				Trichloroethene				cis-1,2-Dichloroethene				Vinyl Chloride			
Well ID	**Start Date**	**End Date**	**Number of Samples**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**	**Test Statistic (S)**	**Number of Detects**	**P-value**	**Trend Result**
ITMW-6	10/28/2009	10/11/2024	23	157	16	4.91E-06	Increasing	161	23	3.09E-06	Increasing	14	12	3.56E-01	No Trend
ITMW-7	4/27/2009	10/8/2024	40	-514	39	1.40E-12	Decreasing	-495	39	8.28E-12	Decreasing	-342	13	1.50E-06	Decreasing
ITMW-9	4/27/2009	10/11/2024	41	239	41	2.08E-04	Increasing	91	41	9.11E-02	No Trend	-63	36	1.79E-01	No Trend
MW-172	10/22/2014	10/10/2024	10	-15	10	1.05E-01	No Trend	-6	10	3.00E-01	No Trend	-39	6	2.13E-04	Decreasing
MW-182	7/23/2015	10/9/2024	24	-100	23	4.15E-06	Decreasing	-109	22	5.65E-07	Decreasing	-31	7	8.66E-02	No Trend
MW-187	9/14/2015	10/10/2024	21	186	17	1.02E-08	Increasing	162	19	5.56E-07	Increasing	90	1	NC	NC
MW-188	9/17/2015	10/9/2024	22	120	12	8.56E-05	Increasing	122	10	6.74E-05	Increasing	85	0	NC	NC
MW-189	9/17/2015	10/10/2024	22	110	22	4.98E-04	Increasing	51	22	6.53E-02	No Trend	39	18	1.25E-01	No Trend
MW-190	9/14/2015	10/9/2024	21	153	11	5.41E-07	Increasing	146	11	2.39E-06	Increasing	117	4	1.24E-04	Increasing
MW-191	9/15/2015	10/10/2024	21	122	6	3.65E-05	Increasing	106	1	NC	NC	85	0	NC	NC
MW-192	9/16/2015	10/9/2024	23	56	3	NC	NC	97	0	NC	NC	85	0	NC	NC
MW-197	9/22/2020	10/10/2024	8	-18	8	1.77E-02	Decreasing	1	8	5.00E-01	No Trend	-14	3	NC	NC
MW-22	10/27/2009	10/8/2024	27	-139	2	NC	NC	-137	0	NC	NC	-36	0	NC	NC
MW-24	4/27/2009	10/9/2024	36	-252	36	3.73E-06	Decreasing	-247	25	5.56E-06	Decreasing	-152	1	NC	NC
MW-24	4/27/2009	10/9/2024	36	-252	36	3.73E-06	Decreasing	-247	25	5.56E-06	Decreasing	-152	1	NC	NC
MW-25/MW-25R	4/27/2009	10/11/2024	36	-158	36	5.45E-03	Decreasing	-9	35	4.48E-01	No Trend	-77	28	1.09E-01	No Trend
MW-26	10/29/2009	10/8/2024	36	-231	8	4.77E-04	Decreasing	-179	1	NC	NC	-50	0	NC	NC
MW-27	5/12/2010	10/8/2024	27	25	19	3.08E-01	No Trend	24	12	3.14E-01	No Trend	-31	0	NC	NC
MW-28	10/29/2009	10/8/2024	28	-217	4	6.40E-06	Decreasing	-181	0	NC	NC	-80	0	NC	NC
MW-29	10/29/2009	10/7/2024	33	-221	2	NC	NC	-156	1	NC	NC	16	0	NC	NC
MW-38	10/26/2011	10/11/2024	36	-109	36	3.32E-02	Decreasing	-208	36	2.17E-04	Decreasing	-158	33	3.81E-03	Decreasing
MW-83	5/23/2014	10/10/2024	22	-58	22	4.26E-02	Decreasing	-48	16	7.51E-02	No Trend	-3	0	NC	NC
MW-84	5/27/2014	10/11/2024	28	142	20	1.54E-03	Increasing	-14	1	NC	NC	-12	1	NC	NC
MW-92	10/22/2014	10/9/2024	12	-23	12	4.34E-02	Decreasing	-5	12	3.78E-01	No Trend	-37	9	2.40E-03	Decreasing
MW-93	10/22/2014	10/11/2024	24	-190	24	1.38E-06	Decreasing	-173	24	9.88E-06	Decreasing	-96	22	9.19E-03	Decreasing
MW-95	10/22/2014	10/11/2024	26	99	26	1.10E-02	Increasing	222	26	1.21E-07	Increasing	-122	23	2.36E-03	Decreasing
MW-198	10/8/2020	10/10/2024	9	-6	9	3.01E-01	No Trend	6	9	3.01E-01	No Trend	18	9	3.82E-02	Increasing
MW-201	7/15/2020	10/10/2024	10	-11	0	NC	NC	-11	0	NC	NC	5	0	NC	NC
MW-203	9/25/2020	10/8/2024	9	30	9	1.25E-03	Increasing	30	8	1.25E-03	Increasing	9	2	NC	NC
MW-204	9/25/2020	11/19/2024	10	-21	10	3.68E-02	Decreasing	-17	10	7.46E-02	No Trend	-9	0	NC	NC
MW-206	10/20/2021	10/8/2024	7	18	7	4.90E-03	Increasing	13	7	3.58E-02	Increasing	6	0	NC	NC
RW-1	10/22/2021	10/11/2024	4	2	4	3.67E-01	No Trend	4	4	1.54E-01	No Trend	4	2	NC	NC
TMW-19	4/25/2017	10/8/2024	18	104	16	1.76E-06	Increasing	94	15	1.36E-05	Increasing	62	2	NC	NC
TMW-25	10/11/2017	10/9/2024	16	-84	15	9.32E-05	Decreasing	-81	15	1.56E-04	Decreasing	-10	11	3.42E-01	No Trend
TMW-36	10/24/2019	10/8/2024	11	-23	11	4.34E-02	Decreasing	21	11	5.97E-02	No Trend	-16	8	1.21E-01	No Trend
TMW-36B	7/15/2020	10/8/2024	10	-6	1	NC	NC	-4	1	NC	NC	5	0	NC	NC
MW-186	9/14/2015	10/9/2024	30	-84	27	1.42E-02	Decreasing	-73	25	2.85E-02	Decreasing	158	21	1.51E-05	Increasing
MW-199	7/15/2020	10/10/2024	11	15	11	1.38E-01	No Trend	24	11	3.62E-02	Increasing	-27	4	1.28E-02	Decreasing
TMW-16	4/25/2017	11/20/2024	15	-57	15	2.79E-03	Decreasing	-36	15	4.14E-02	Decreasing	14	14	2.60E-01	No Trend
TMW-26	10/11/2017	11/20/2024	18	-89	18	4.29E-04	Decreasing	-45	16	4.76E-02	Decreasing	77	13	1.94E-03	Increasing
TMW-27	10/11/2017	10/9/2024	14	16	2	NC	NC	38	0	NC	NC	32	0	NC	NC
TMW-30	10/13/2017	10/9/2024	19	49	16	8.77E-03	Increasing	36	11	4.14E-02	Increasing	30	3	NC	NC
TMW-32	4/3/2018	10/10/2024	17	-76	17	3.67E-04	Decreasing	11	17	3.26E-01	No Trend	34	12	6.77E-02	No Trend

Notes:

ND = Result is Not Detected at the associated method quantitation limit

<PQL = Analyte qualified as estimated because it was detected above method detection limit but below reporting limit or mixture of estimated and non-detect results

Bolded text = source area well

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TABLE 9
INDOOR AND OUTDOOR AIR ANALYTICAL RESULTS
(October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Location	Industrial Air	AA	AA	Z2-1	Z3-1	Z3-2	Z4-1	Z4-2	Z5-1	Z5-2	Z5-2	Z5-OF	Z6-1	Z6-2	Z6-2
Field Sample ID	RSL	AA-1-202410	AA-2-202410	Z2-1-IA-202410	Z3-1-IA-202410	Z3-2-IA-202410	Z4-1-IA-202410	Z4-2-IA-202410	Z5-1-IA-202410	Z5-2-IA-202410	Z5-2-IA-202410-2	Z5-OF-IA-202410	Z6-1-IA-202410	Z6-2-IA-202410	DUP-IA-202410
Sample Date	(TR = 1E-5, THQ	10/08/2024	10/09/2024	10/08/2024	10/08/2024	10/08/2024	10/08/2024	10/08/2024	10/08/2024	10/08/2024	10/11/2024	10/08/2024	10/08/2024	10/08/2024	10/08/2024
Comments	= 0.1)														Field Duplicate
VOC															
Acetone		8.2 (6.1)	9.1 (7.4)	1200 (67)	270 (22)	1600 (72)	260 (21)	1400 (73)	---	21 (7.3)	38 (8.1)	47 (6.8)	---	19 (6.8)	19 (7)
Benzene	13	0.27 (0.21)	0.31 (0.25)	U (22)	1.3 (0.74)	U (24)	1.3 (0.71)	U (24)	2.2 (0.22)	0.31 (0.24)	0.57 (0.27)	0.66 (0.23)	2.8 (0.22)	0.31 (0.23)	0.31 (0.23)
1,3-Butadiene	0.88	U (0.28)	U (0.34)	U (16)	U (1)	U (17)	U (0.99)	U (17)	0.39 (0.3)	U (0.34)	U (0.38)	U (0.32)	0.41 (0.31)	U (0.32)	U (0.32)
2-Butanone	2200	U (1.9)	U (2.3)	190 (83)	37 (6.8)	240 (89)	36 (6.6)	230 (90)	8.7 (2)	3.2 (2.3)	4.9 (2.5)	2.8 (2.1)	8.5 (2)	2.2 (2.1)	2.5 (2.2)
Carbon Tetrachloride	20	0.4 (0.16)	0.41 (0.2)	U (44)	U (0.58)	U (48)	U (0.56)	U (48)	0.43 (0.17)	0.47 (0.19)	0.34 (0.21)	0.71 (0.18)	0.43 (0.17)	0.48 (0.18)	0.44 (0.18)
Chloroform	0.85	U (0.12)	U (0.15)	U (34)	U (0.45)	U (37)	U (0.44)	U (37)	0.54 (0.13)	0.66 (0.15)	0.9 (0.17)	0.7 (0.14)	0.51 (0.14)	0.56 (0.14)	0.59 (0.14)
Chloromethane	39	U (1.3)	U (1.6)	U (58)	U (4.8)	U (62)	U (4.6)	U (63)	1.6 (1.4)	U (1.6)	U (1.8)	U (1.5)	1.9 (1.4)	U (1.5)	U (1.5)
Cumene	180	U (0.63)	U (0.76)	U (35)	U (2.3)	U (37)	U (2.2)	U (38)	0.82 (0.68)	U (0.76)	U (0.84)	U (0.7)	1 (0.68)	U (0.71)	U (0.72)
Cyclohexane	2600	U (2.2)	U (2.7)	U (24)	U (7.9)	U (26)	U (7.7)	U (26)	3 (2.4)	U (2.6)	U (2.9)	U (2.5)	3.4 (2.4)	U (2.5)	U (2.5)
1,4-Dichlorobenzene	11	U (0.16)	U (0.19)	U (42)	U (0.55)	U (45)	U (0.54)	U (46)	U (0.16)	U (0.18)	U (0.2)	0.65 (0.17)	U (0.17)	U (0.17)	U (0.18)
Dichlorodifluoromethane	44	1.9 (0.32)	2 (0.38)	U (35)	2 (1.1)	U (37)	1.8 (1.1)	U (38)	1.9 (0.34)	2.2 (0.38)	1.9 (0.42)	2.2 (0.35)	2 (0.34)	2.2 (0.36)	2.3 (0.36)
1,2-Dichloroethane	3.1	U (0.1)	U (0.12)	U (28)	U (0.37)	U (30)	U (0.36)	U (31)	U (0.11)	U (0.12)	U (0.14)	0.23 (0.12)	U (0.11)	U (0.12)	U (0.12)
cis-1,2-Dichloroethene	18	U (0.1)	U (0.12)	U (28)	U (0.36)	U (30)	U (0.35)	U (30)	0.22 (0.11)	U (0.12)	U (0.13)	U (0.11)	0.23 (0.11)	U (0.11)	U (0.12)
Ethanol		7.1 (4.9)	U (5.8)	100 (66)	32 (17)	71 (71)	37 (17)	U (72)	51 (5.2)	8.2 (5.8)	8.4 (6.4)	---	64 (5.2)	8.7 (5.4)	9 (5.5)
Ethyl Benzene	49	U (0.11)	U (0.13)	360 (31)	94 (0.4)	470 (33)	90 (0.39)	400 (33)	22 (0.12)	3.6 (0.13)	16 (0.15)	6 (0.12)	22 (0.12)	3.1 (0.12)	3.1 (0.13)
4-Ethyltoluene		U (0.63)	U (0.76)	U (35)	6.3 (2.3)	U (37)	U (2.2)	U (38)	1.1 (0.68)	U (0.76)	0.84 (0.84)	U (0.7)	3.7 (0.68)	U (0.71)	U (0.72)
n-Heptane	180	U (2.6)	U (3.2)	200 (29)	43 (9.4)	250 (31)	44 (9.1)	220 (31)	44 (2.8)	U (3.2)	5.9 (3.5)	3.1 (2.9)	76 (2.8)	U (3)	U (3)
n-Hexane	310	U (2.3)	U (2.7)	U (25)	U (8.1)	U (27)	U (7.8)	U (27)	4.8 (2.4)	U (2.7)	U (3)	U (2.5)	7 (2.4)	U (2.5)	U (2.6)
Isooctane		U (3)	U (3.6)	U (33)	U (11)	U (35)	U (10)	U (36)	7.9 (3.2)	U (3.6)	U (4)	U (3.3)	13 (3.2)	U (3.4)	U (3.4)
Isopropanol	88	U (6.3)	U (7.6)	U (87)	U (23)	U (93)	U (22)	U (94)	68 (6.8)	U (7.6)	U (8.4)	140 (7)	70 (6.8)	U (7.1)	U (7.2)
n-Propylbenzene	440	U (0.63)	U (0.76)	U (35)	U (2.3)	U (37)	U (2.2)	U (38)	0.67 (0.68)	U (0.76)	U (0.84)	U (0.7)	1 (0.68)	U (0.71)	U (0.72)
Styrene	440	U (0.55)	U (0.66)	U (30)	11 (2)	U (32)	18 (1.9)	U (32)	3.1 (0.59)	U (0.66)	1.5 (0.72)	3 (0.61)	3.7 (0.59)	U (0.61)	U (0.63)
Tetrachloroethene	18	U (0.18)	U (0.21)	U (48)	U (0.62)	U (51)	U (0.6)	U (52)	0.63 (0.19)	U (0.21)	U (0.23)	0.2 (0.19)	0.69 (0.19)	U (0.2)	U (0.2)
Tetrahydrofuran	880	U (1.9)	U (2.3)	U (21)	U (6.8)	24 (22)	U (6.6)	U (22)	U (2)	U (2.3)	U (2.5)	U (2.1)	U (2)	U (2.1)	U (2.2)
Toluene	2200	0.53 (0.24)	0.59 (0.29)	790 (26)	180 (0.87)	1000 (28)	180 (0.84)	910 (29)	49 (0.26)	14 (0.29)	27 (0.32)	8.9 (0.27)	63 (0.26)	13 (0.27)	13 (0.28)
Trichloroethene	0.88	U (0.14)	U (0.17)	U (38)	0.5 (0.5)	U (40)	0.61 (0.48)	U (41)	2.3 (0.15)	0.83 (0.16)	1.7 (0.18)	0.45 (0.15)	2.1 (0.15)	0.7 (0.15)	0.69 (0.16)
Trichlorofluoromethane		1.2 (0.72)	1.1 (0.87)	U (40)	U (2.6)	U (42)	U (2.5)	U (43)	1.2 (0.78)	1.4 (0.86)	1.2 (0.96)	1.3 (0.8)	1.3 (0.78)	1.3 (0.81)	1.3 (0.82)
1,2,4-Trimethylbenzene	26	U (0.63)	U (0.76)	U (35)	6.5 (2.3)	U (37)	6.6 (2.2)	U (38)	3.4 (0.68)	0.84 (0.76)	1.4 (0.84)	1.1 (0.7)	4.9 (0.68)	0.75 (0.71)	1 (0.72)
1,3,5-Trimethylbenzene	26	U (0.63)	U (0.76)	U (35)	2.4 (2.3)	U (37)	U (2.2)	U (38)	0.86 (0.68)	U (0.76)	U (0.84)	U (0.7)	1.3 (0.68)	U (0.71)	U (0.72)
m,p-xylene		0.33 (0.22)	0.36 (0.27)	1400 (31)	370 (0.8)	1900 (33)	340 (0.77)	1600 (33)	89 (0.24)	15 (0.27)	58 (0.3)	22 (0.25)	89 (0.24)	13 (0.25)	13 (0.26)
ortho-xylene	44	0.14 (0.11)	0.19 (0.13)	430 (31)	110 (0.4)	560 (33)	100 (0.39)	460 (33)	26 (0.12)	4.2 (0.13)	16 (0.15)	6.3 (0.12)	26 (0.12)	3.7 (0.12)	3.7 (0.13)

Notes:

1 All concentrations are presented in micrograms per cubic meter (µg/m3).
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the are double underlined.

Abbreviations:

U -- Not Detected.
( ) -- Reporting Detection Limit.
RSL -- Regional Screening Level.
Z5-OF -- Z5 Office
AA -- Ambient Air
--- -- Not analyzed

TABLE 10
SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
(October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Location	Industrial SSV RSL	Z2-1	Z3-1	Z3-2	Z4-1	Z4-2	Z5-1	Z5-2	Z5-OF	Z6-1	Z6-2
Field Sample ID		Z2-1-202410	Z3-1-202410	Z3-2-202410	Z4-1-202410	Z4-2-202410	Z5-1-202410	Z5-2-202410	Z5-OF-202410	Z6-1-202410	Z6-2-202410
Sample Date		10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024
VOC											
Acetone		U (200)	U (260)	56 (24)	48 (24)	27 (24)	30 (25)	31 (26)	U (24)	U (230)	U (23)
Carbon Disulfide	10000	U (100)	U (130)	34 (12)	U (12)	U (13)	150 (13)	U (13)	U (13)	U (120)	U (12)
Chloroform	28	U (40)	U (52)	12 (4.9)	U (4.9)	U (5)	U (5.1)	5.2 (5.2)	U (5)	U (47)	U (4.8)
Dichlorodifluoromethane	1500	2400 (41)	U (53)	U (5)	U (5)	28 (5.1)	U (5.2)	120 (5.3)	U (5.1)	U (48)	U (4.8)
1,1-Dichloroethane		U (33)	260 (44)	7.3 (4.1)	8 (4.1)	4.3 (4.2)	31 (4.2)	U (4.4)	U (4.2)	750 (39)	U (3.9)
cis-1,2-Dichloroethene	600	U (33)	350 (43)	U (4)	21 (4)	U (4.1)	U (4.2)	U (4.3)	6 (4.1)	U (38)	U (3.9)
trans-1,2-Dichloroethene	600	U (33)	310 (43)	U (4)	19 (4)	U (4.1)	U (4.2)	U (4.3)	5.1 (4.1)	U (38)	U (3.9)
1,4-Dioxane	430	U (120)	U (150)	43 (14)	U (14)	U (15)	U (15)	U (15)	U (15)	U (140)	U (14)
Ethanol		U (190)	U (250)	U (23)	U (23)	U (24)	U (24)	U (25)	41 (24)	U (220)	35 (22)
Ethyl Benzene	1600	U (36)	U (47)	5.1 (4.4)	U (4.4)	20 (4.5)	U (4.6)	U (4.7)	U (4.5)	U (42)	U (4.2)
4-Ethyltoluene		U (40)	U (53)	U (4.9)	U (5)	U (5.1)	U (5.2)	5.8 (5.3)	U (5.1)	U (47)	U (4.8)
n-Hexane	10000	U (29)	39 (38)	U (3.5)	U (3.6)	U (3.6)	U (3.7)	U (3.8)	U (3.6)	U (34)	U (3.4)
Tetrachloroethene	600	14000 (56)	120 (73)	1100 (6.8)	48 (6.8)	550 (7)	420 (7.1)	30 (7.3)	23 (7)	1000 (65)	U (6.6)
1,1,1-Trichloroethane	73000	100 (45)	U (59)	140 (5.5)	51 (5.5)	66 (5.6)	620 (5.7)	110 (5.9)	U (5.6)	10000 (53)	U (5.3)
Trichloroethene	29	53 (44)	230 (58)	290 (5.4)	170 (5.4)	75 (5.5)	100 (5.6)	1200 (5.8)	72 (5.5)	160 (52)	U (5.2)
Trichlorofluoromethane		81 (46)	U (60)	270 (5.6)	16 (5.7)	870 (5.8)	U (5.9)	1000 (6)	U (5.8)	U (54)	U (5.5)
1,1,2-Trichloro-1,2,2-trifluoroethane	73000	U (63)	U (82)	U (7.7)	U (7.7)	24 (7.9)	U (8)	16 (8.2)	U (7.9)	U (74)	U (7.5)
1,2,4-Trimethylbenzene	870	U (40)	U (53)	U (4.9)	U (5)	U (5.1)	U (5.2)	9.3 (5.3)	U (5.1)	U (47)	U (4.8)
Vinyl Chloride	1500	U (21)	5800 (27)	4 (2.6)	48 (2.6)	U (2.6)	4.5 (2.7)	9.6 (2.7)	8.6 (2.6)	U (25)	U (2.5)
m,p-xylene		72 (72)	U (93)	22 (8.7)	U (8.8)	78 (8.9)	U (9.1)	15 (9.3)	U (8.9)	U (84)	U (8.5)
ortho-xylene	1500	U (36)	U (47)	6.2 (4.4)	U (4.4)	19 (4.5)	U (4.6)	6.7 (4.7)	U (4.5)	U (42)	U (4.2)

Notes:

1 All concentrations presented in micrograms per cubic meter (µg/m3).
2 Only compounds with at least one detection are shown.
3 Concentrations that exceed the Industrial SSV RSL are double underlined.

Abbreviations:

U -- Not Detected.
( ) -- Reporting Detection Limit.
--- -- Not Analyzed.

TABLE 11
ONSITE VAPOR INTRUSION - VALUES USED FOR DAILY INTAKE CALCULATIONS
Whirlpool Facility - Fort Smith, Arkansas

Scenario Timeframe: Current
Medium: Indoor air or Soil vapor
Exposure Medium: Air
Exposure Point: Groundwater
Receptor Population: Indoor C/I Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale / Reference	Intake Equation
Inhalation	CA	Chemical Concentration in Air	ug/m^3	(1)	(1)	Chronic Daily Intake (CDI) (mg/m^3) = CA x ET x EF x ED x 1/CF x 1/AT
	ET	Exposure Time	hours/day	8	d,i	
	EF	Exposure Frequency	days/year	250	i	
	ED	Exposure Duration	years	25	i	
	CF		hour/day * ug/mg	24000	Calculated	
	AT-C	Averaging Time (Cancer)	days	25,550	a,d	
	AT-N	Averaging Time (Non-Cancer)	days	9,125	a,d	

References

a. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part A) Interim Final (EPA 1989).
i. Standard default exposure factors. OSWER Directive 9200.1-120 (EPA 2014).
d. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual: Part F, Supplemental Guidance for Inhalation Risk Assessment (EPA 2009).

Notes:

(1) Indoor air concentrations of volatile organic compounds resulting from vapor intrusion was collected in October 2023
ug/mg = micrograms per milligram
mg/m^3 = milligrams per cubic meter
ug/m^3 = micrograms per cubic meter

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TABLE 12
ONSITE VAPOR INTRUSION - TOXICITY VALUES
Whirlpool Facility - Fort Smith, Arkansas

Chemicals	Inhalation Unit Risk (IUR) $(mg/m^3)^{-1}$			Inhalation Reference Concentration (RfC) (mg/m^3)		
	Value	Ref	Note	Value	Ref	Note
1,1-Dichloroethane	NA	126	90	5.00E-01	2	3
1,2-Dichloroethane	2.60E-02	1		7.00E-03	126	
1,1-Dichloroethene	NA			2.00E-01	1	
cis-1,2-Dichloroethene	NA			4.00E-02	126	
trans-1,2-Dichloroethene	NA			NA	1	90
Tetrachloroethene	2.60E-04	1		4.00E-02	1	
1,1,1-Trichloroethane	NA			5.00E+00	1	
Trichloroethene	4.10E-03	1	159	2.00E-03	1	
Vinyl Chloride	4.40E-03	1	79	1.00E-01	1	

References

1. USEPA. Integrated Risk Information System (IRIS). On-line database.

2. 'USEPA. 1997. Health Effects Assessment Summary Tables (HEAST). FY-1997 Update. EPA 540/R-97-036. July.

126. Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database.

Notes:

mg/m^3 = Milligrams per cubic meter

3. HEAST Alternate Method.

79. For evaluating partial lifetime exposures that include early-life exposure, the unit risk factor is also used in risk calculations that do not prorate the early-life exposure, per USEPA's May 2000 Toxicological Review.

90. Inadequate data exist to derive a toxicity value, according to the indicated reference.

159. Because the chemical has a mutagenic mode of action according to USEPA, the SF and URF are adjusted by the following age-dependent adjustment factors (ADAFs) before use: 10 for ages 0 to 2; 3 for ages 2 to 16; and 1 for ages 16 and older (USEPA 2005).

TABLE 13
INDOOR AIR HUMAN HEALTH RISKS (October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Z2-1					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (28)			NA	NA
1,2-Dichloroethane	U (28)			NA	NA
1,1-Dichloroethene	U (28)			NA	NA
cis-1,2-Dichloroethene	U (28)			NA	NA
trans-1,2-Dichloroethene	U (28)			NA	NA
Tetrachloroethene	U (48)			NA	NA
1,1,1-Trichloroethane	U (38)			NA	NA
Trichloroethene	U (38)			NA	NA
Vinyl Chloride	U (18)			NA	NA
			Summed Risk	NA	NA

Z3-1					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.37)			NA	NA
1,2-Dichloroethane	U (0.37)			NA	NA
1,1-Dichloroethene	U (0.18)			NA	NA
cis-1,2-Dichloroethene	U (0.36)			NA	NA
trans-1,2-Dichloroethene	U (1.8)			NA	NA
Tetrachloroethene	U (0.62)			NA	NA
1,1,1-Trichloroethane	U (0.5)			NA	NA
Trichloroethene	0.5 (0.5)	4.1E-05	1.1E-04	1.7E-07	5.7E-02
Vinyl Chloride	U (0.12)			NA	NA
			Summed Risk	2E-07	6E-02

Z3-2					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (30)			NA	NA
1,2-Dichloroethane	U (30)			NA	NA
1,1-Dichloroethene	U (30)			NA	NA
cis-1,2-Dichloroethene	U (30)			NA	NA
trans-1,2-Dichloroethene	U (30)			NA	NA
Tetrachloroethene	U (51)			NA	NA
1,1,1-Trichloroethane	U (41)			NA	NA
Trichloroethene	U (40)			NA	NA
Vinyl Chloride	U (19)			NA	NA
			Summed Risk	NA	NA

TABLE 13
INDOOR AIR HUMAN HEALTH RISKS (October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Z4-1					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.36)			NA	NA
1,2-Dichloroethane	U (0.36)			NA	NA
1,1-Dichloroethene	U (0.18)			NA	NA
cis-1,2-Dichloroethene	U (0.35)			NA	NA
trans-1,2-Dichloroethene	U (1.8)			NA	NA
Tetrachloroethene	U (0.6)			NA	NA
1,1,1-Trichloroethane	U (0.49)			NA	NA
Trichloroethene	0.61 (0.48)	5.0E-05	1.4E-04	2.0E-07	7.0E-02
Vinyl Chloride	U (0.11)			NA	NA
			Summed Risk	2E-07	7E-02

Z4-2					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (31)			NA	NA
1,2-Dichloroethane	U (31)			NA	NA
1,1-Dichloroethene	U (30)			NA	NA
cis-1,2-Dichloroethene	U (30)			NA	NA
trans-1,2-Dichloroethene	U (30)			NA	NA
Tetrachloroethene	U (52)			NA	NA
1,1,1-Trichloroethane	U (42)			NA	NA
Trichloroethene	U (41)			NA	NA
Vinyl Chloride	U (20)			NA	NA
			Summed Risk	NA	NA

Z5-1					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.11)			NA	NA
1,2-Dichloroethane	U (0.11)			NA	NA
1,1-Dichloroethene	U (0.055)			NA	NA
cis-1,2-Dichloroethene	0.22 (0.11)	1.8E-05	5.0E-05	NA	1.3E-03
trans-1,2-Dichloroethene	U (0.55)			NA	NA
Tetrachloroethene	0.63 (0.19)	5.1E-05	1.4E-04	1.3E-08	3.6E-03
1,1,1-Trichloroethane	U (0.15)			NA	NA
Trichloroethene	2.3 (0.15)	1.9E-04	5.3E-04	7.7E-07	2.6E-01
Vinyl Chloride	U (0.035)			NA	NA
			Summed Risk	8E-07	3E-01

TABLE 13
INDOOR AIR HUMAN HEALTH RISKS (October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Z5-2 (10/08/2024)					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.12)			NA	NA
1,2-Dichloroethane	U (0.12)			NA	NA
1,1-Dichloroethene	U (0.061)			NA	NA
cis-1,2-Dichloroethene	U (0.12)			NA	NA
trans-1,2-Dichloroethene	U (0.61)			NA	NA
Tetrachloroethene	U (0.21)			NA	NA
1,1,1-Trichloroethane	U (0.17)			NA	NA
Trichloroethene	0.83 (0.16)	6.8E-05	1.9E-04	2.8E-07	9.5E-02
Vinyl Chloride	U (0.039)			NA	NA
			Summed Risk	3E-07	9E-02

Z5-2 (10/11/2024)					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.12)			NA	NA
1,2-Dichloroethane	U (0.12)			NA	NA
1,1-Dichloroethene	U (0.061)			NA	NA
cis-1,2-Dichloroethene	U (0.12)			NA	NA
trans-1,2-Dichloroethene	U (0.61)			NA	NA
Tetrachloroethene	U (0.21)			NA	NA
1,1,1-Trichloroethane	U (0.17)			NA	NA
Trichloroethene	1.7 (0.18)	1.4E-04	3.9E-04	5.7E-07	1.9E-01
Vinyl Chloride	U (0.039)			NA	NA
			Summed Risk	6E-07	2E-01

Z5-OF					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.12)			NA	NA
1,2-Dichloroethane	0.23 (0.12)	1.9E-05	5.3E-05	4.9E-07	7.5E-03
1,1-Dichloroethene	U (0.057)			NA	NA
cis-1,2-Dichloroethene	U (0.11)			NA	NA
trans-1,2-Dichloroethene	U (0.57)			NA	NA
Tetrachloroethene	0.2 (0.19)	1.3E-05	3.5E-05	3.3E-09	8.8E-04
1,1,1-Trichloroethane	U (0.16)			NA	NA
Trichloroethene	0.45 (0.15)	2.3E-05	6.4E-05	9.4E-08	3.2E-02
Vinyl Chloride	U (0.036)			NA	NA
			Summed Risk	6E-07	4E-02

TABLE 13
INDOOR AIR HUMAN HEALTH RISKS (October 2024)
Whirlpool Facility - Fort Smith, Arkansas

Z6-1					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.11)			NA	NA
1,2-Dichloroethane	U (0.11)			NA	NA
1,1-Dichloroethene	U (0.055)			NA	NA
cis-1,2-Dichloroethene	0.23 (0.11)	1.9E-05	5.3E-05	NA	1.3E-03
trans-1,2-Dichloroethene	U (0.55)			NA	NA
Tetrachloroethene	0.69 (0.19)	5.6E-05	1.6E-04	1.5E-08	3.9E-03
1,1,1-Trichloroethane	U (0.15)			NA	NA
Trichloroethene	2.1 (0.15)	1.7E-04	4.8E-04	7.0E-07	2.4E-01
Vinyl Chloride	U (0.036)			NA	NA
			Summed Risk	7E-07	2E-01

Z6-2					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.12)			NA	NA
1,2-Dichloroethane	U (0.12)			NA	NA
1,1-Dichloroethene	U (0.057)			NA	NA
cis-1,2-Dichloroethene	U (0.11)			NA	NA
trans-1,2-Dichloroethene	U (0.57)			NA	NA
Tetrachloroethene	U (0.2)			NA	NA
1,1,1-Trichloroethane	U (0.16)			NA	NA
Trichloroethene	0.7 (0.15)	5.7E-05	1.6E-04	2.3E-07	8.0E-02
Vinyl Chloride	U (0.037)			NA	NA
			Summed Risk	2E-07	8E-02

Z6-2 (FD)					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.12)			NA	NA
1,2-Dichloroethane	U (0.12)			NA	NA
1,1-Dichloroethene	U (0.058)			NA	NA
cis-1,2-Dichloroethene	U (0.12)			NA	NA
trans-1,2-Dichloroethene	U (0.58)			NA	NA
Tetrachloroethene	U (0.2)			NA	NA
1,1,1-Trichloroethane	U (0.16)			NA	NA
Trichloroethene	0.69 (0.16)	5.6E-05	1.6E-04	2.3E-07	7.9E-02
Vinyl Chloride	U (0.038)			NA	NA
			Summed Risk	2E-07	8E-02

TABLE 13
INDOOR AIR HUMAN HEALTH RISKS (October 2024)
Whirlpool Facility - Fort Smith, Arkansas

AA					
Constituent	**Air Concentration** ($\mu g/m^3$)	**Cancer CDI** (mg/m^3)	**Non-Cancer CDI** (mg/m^3)	**LCR**	**HQ**
1,1-Dichloroethane	U (0.1)			NA	NA
1,2-Dichloroethane	U (0.1)			NA	NA
1,1-Dichloroethene	U (0.051)			NA	NA
cis-1,2-Dichloroethene	U (0.1)			NA	NA
trans-1,2-Dichloroethene	U (0.51)			NA	NA
Tetrachloroethene	U (0.18)			NA	NA
1,1,1-Trichloroethane	U (0.14)			NA	NA
Trichloroethene	U (0.14)			NA	NA
Vinyl Chloride	U (0.033)			NA	NA
			Summed Risk	NA	NA

Notes:

$\mu g/m^3$ = Microgram per cubic meter

CDI = Chronic Daily Intake

ND = Nondetect

HQ = Hazard Quotient

LCR = Lifetime Cancer Risk

HI = Hazard Index

U -- Nondetect.

NA -- Insufficient toxicity or nondetect.

Summary **Location**	**Target Cancer Risk 1E-04 LCR**	**Target HI** **1E+00 HI**
Z2-1	NA	NA
Z3-1	2E-07	6E-02
Z3-2	NA	NA
Z4-1	2E-07	7E-02
Z4-2	NA	NA
Z5-1	8E-07	3E-01
Z5-2 (10/08/2024)	3E-07	9E-02
Z5-2 (10/11/2024)	6E-07	2E-01
Z5-OF	6E-07	4E-02
Z6-1	7E-07	2E-01
Z6-2	2E-07	8E-02
AA	NA	NA
Z6-2 (FD)	2E-07	8E-02

TABLE 14
ANNUAL 2024 GROUNDWATER VOC DATA FOR SHALLOW MONITORING WELLS AND VAPOR POINTS
Whirlpool Facility - Fort Smith, Arkansas

Location	MW-175	MW-176	MW-178	VP-7	VP-8	VP-12	VP-14
Sample Date	10/11/2024	10/09/2024	10/11/2024	10/09/2024	10/09/2024	10/09/2024	10/09/2024
Acetone	U (3.7)	U (3.7)	U (3.7)	65 (3.7)	U (3.7)	U (3.7)	16 (3.7)
Benzene	U (0.27)	U (0.27)	U (0.27)	0.44 J (0.27)	U (0.27)	U (0.27)	U (0.27)
Chlorobenzene	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	U (0.15)	1.1 (0.15)
1,1-Dichloroethene	U (0.33)	1.8 (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)	U (0.33)
cis-1,2-Dichloroethene	2.7 (0.25)	9.8 (0.25)	U (0.25)	U (0.25)	0.76 J (0.25)	U (0.25)	U (0.25)
Toluene	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	U (0.25)	4.2 (0.25)
Trichloroethene	93 (0.20)	150 (0.20)	U (0.20)	6.2 (0.20)	11 (0.20)	12 (0.20)	1.9 (0.20)
Vinyl Chloride	U (0.40)	23 (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)	U (0.40)

Notes:

1 All concentrations are presented in ug/L.

2 Only compounds with at least one detection are shown.

Abbreviations:

U -- Not Detected.

J -- Estimated Concentration.

( ) -- Reporting Detection Limit.

TABLE 15
UPPER-BOUND VAPOR INTRUSION RISK ESTIMATES
BASED ON ANNUAL 2023 GROUNDWATER DATA IN THE NEIGHBORHOOD
Whirlpool Facility - Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Maximum Detected Concentration in Groundwater in Neighborhood (mg/L)	Location of Maximum Detected Concentration in Groundwater in Neighborhood	Residential Vapor Intrusion	
					Risk	HQ
VOC	Acetone	67-64-1	7.70E-02	MW-57R	NC	NC
VOC	Chlorobenzene	108-90-7	4.10E-03	MW-63R	NC	7.6E-05
VOC	1,1-Dichloroethene	75-35-4	2.10E-03	MW-176	NC	2.7E-05
VOC	cis-1,2-Dichloroethene	156-59-2	9.90E-03	MW-176	NC	2.9E-04
VOC	Toluene	108-88-3	4.40E-03	TMW-14	NC	1.1E-06
VOC	Trichloroethene	79-01-6	4.80E-01	MW-56R	1.8E-06	3.7E-01
VOC	Vinyl Chloride	75-01-4	2.30E-02	MW-176	4.7E-07	7.3E-04

Cumulative Risk and HI:	2E-06	4E-01
ADEQ Target Cumulative Risk and HI:	1E-04	1E+00

Note:
Only COCs detected in monitoring wells in the neighborhood are shown.
Detected concentrations are from samples collected from groundwater monitoring wells in the 2024 Annual Sampling Event.
Risks were calculated using the model derived by Johnson & Ettinger (1991), as discussed in Section 3.3.1 of the April 2013 Revised Risk Management
NC -- Risk and HQ estimates were not calculated for detected chemicals with inadequate toxicity or physical/chemical parameters.

RAMBOLL

TABLE 16
EVALUATION OF VOCS IN WATER AT PARCELS 2 THROUGH 5
Whirlpool Facility - Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Parcel 2									Parcel 3			Parcel 4			Parcel 5		
			5.5 feet bgs			10.5 feet bgs			12 feet bgs			12 feet bgs			12.5 feet bgs			10.5 feet bgs		
			VP-7			VP-8			MW-175			MW-176			VP-12			VP-14		
			Perched Water			Perched Water			Groundwater			Groundwater			Groundwater			Groundwater		
			Conc	Risk	HQ	Conc	Risk	HQ	Conc	Risk	HQ	Conc	Risk	HQ	Conc	Risk	HQ	Conc	Risk	HQ
VOC	Acetone	67-64-1	6.50E-02	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	1.60E-02	NC	NC
VOC	Benzene	71-43-2	4.40E-04	2.2E-09	2.2E-05	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC
VOC	Chlorobenzene	108-90-7	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	1.10E-03	NC	2.1E-05
VOC	1,1-Dichloroethene	75-35-4	ND	NC	NC	ND	NC	NC	ND	NC	NC	1.80E-03	NC	2.3E-05	ND	NC	NC	ND	NC	NC
VOC	cis-1,2-Dichloroethene	156-59-2	ND	NC	NC	7.60E-04	NC	2.3E-05	2.70E-03	NC	7.9E-05	9.80E-03	NC	2.9E-04	ND	NC	NC	ND	NC	NC
VOC	Toluene	108-88-3	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	ND	NC	NC	4.20E-03	NC	1.1E-06
VOC	Trichloroethene	79-01-6	6.20E-03	2.5E-08	5.1E-03	1.10E-02	4.1E-08	8.5E-03	9.30E-02	3.5E-07	7.2E-02	1.50E-01	5.6E-07	1.2E-01	1.20E-02	4.4E-08	9.2E-03	1.90E-03	7.1E-09	1.5E-03
VOC	Vinyl Chloride	75-01-4	ND	NC	NC	ND	NC	NC	ND	NC	NC	2.30E-02	4.7E-07	7.3E-04	ND	NC	NC	ND	NC	NC
Cumulative Risk and HI:				3E-08	5E-03		4E-08	9E-03		3E-07	7E-02		1E-06	1E-01		4E-08	9E-03		7E-09	1E-03

Notes:
ND -- Not detected.
Groundwater and perched water concentrations are in mg/L.
Only COCs detected in the Annual Sampling Event samples at locations listed on the table are shown.
NC -- Risk and HQ estimates were not calculated for detected chemicals with inadequate toxicity or physical/chemical parameters or where chemical concentrations were non-detect.
Risks based on concentrations measured in groundwater were calculated using the model derived by Johnson & Ettinger (1991), as discussed in Section 3.3.1 of the April 2013 Revised Risk Management Plan.
Cumulative cancer risk and HI estimates were below Arkansas Department of Environmental Quality (ADEQ)'s risk limits (1E-4 and 1, respectively).

TABLE 17
SUMMARY OF TCE CONCENTRATIONS AT PARCEL 3 FROM 2015 TO PRESENT
Whirlpool Facility - Fort Smith, Arkansas

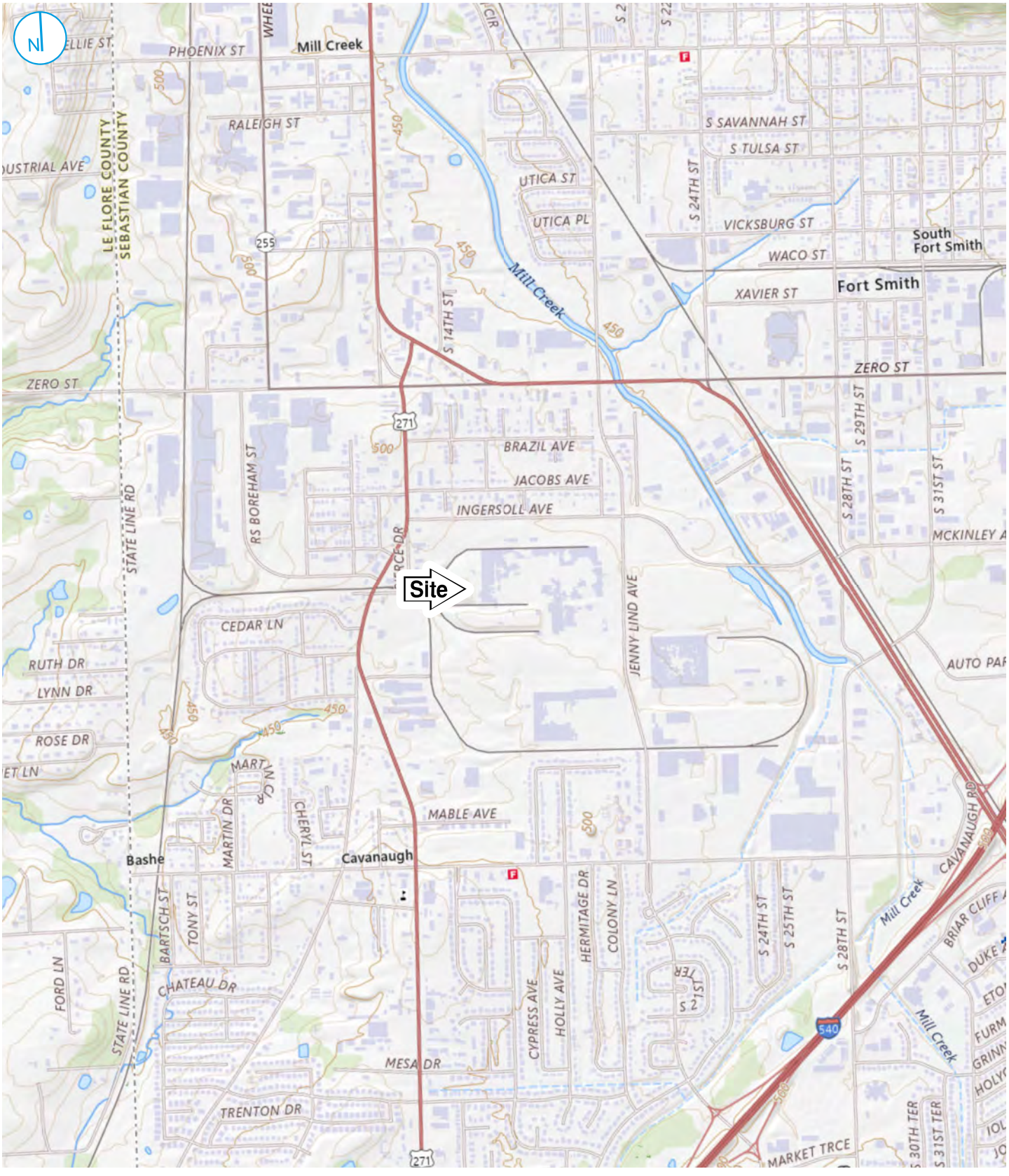
Sampling Quarter	Sample Date	MW-176 Groundwater 13.5-14.5 ft bgs (ug/L)	VP-10 Groundwater 10.75-11.25 ft bgs (ug/L)	VP-9 Groundwater 5.25-5.75 ft bgs (ug/L)	VP-9 Soil Gas 5.25-5.75 ft bgs (ug/m^3)	Crawl Space (ug/m^3)	Indoor Air (ug/m^3)	Outdoor Air (ug/m^3)
2015Q1	Jan-15	720 (5.0)	636 (5.0)	--	31 (0.011)	--	--	--
2015Q2	Apr-15	528 (1.7)	395 (1.7)	--	0.25 (0.012)	U (0.011)	U (0.013)	U (0.012)
2015Q3	Jul-15	575 (1.7)	6.1 (0.17)	2.4 (0.17)	--	--	--	--
2015Q4	Oct-15	420 (1.7)	198 (0.17)	--	360 (0.79)	--	--	--
2015Q4	Nov-15	--	--	--	1200 (1.8)	U (0.011)	0.062 (0.011)	U (0.011)
2016Q1	Jan-16	306 (1.7)	823 (0.85)	--	--	--	--	--
2016Q2	May-16	389 (1.7)	376 (0.85)	--	--	--	--	--
2016Q4	Nov-16	320 (1.7)	278 (0.85)	--	464 (7.7)	--	--	--
2017Q2	Apr-17	355 (1.7)	198 (0.85)	--	400 D (0.14)	--	--	--
2017Q4	Oct-17	281 (1.7)	211 (0.85)	--	400 D (1.5)	--	--	--
2018Q2	Apr-18	426 (1.7)	357 (0.85)	--	540 D (0.27)	--	--	--
2018Q4	Nov-18	397 (1.7)	250 (0.85)	--	230 (8.4)	--	--	--
2019Q2	Apr-19	503 (1.7)	211 (0.48)	--	2.5 (0.36)	--	--	--
2019Q4	Oct-19	317 (1.7)	3.3 J (0.85)	--	--	--	--	--
2020Q2	May-20	323 (0.90)	27.5 (0.17)	--	--	--	--	--
2020Q4	Oct-20	359 (2.5)	110 (1.2)	--	--	--	--	--
2021Q2	May-21	369 (2.5)	169 (0.25)	--	--	--	--	--
2021Q4	Oct-21	310 (2.1)	177 (1.0)	--	--	--	--	--
2022Q2	Apr-22	380 (1.0)	--	--	--	--	--	--
2022Q4	Oct-22	329 (1.0)	--	--	--	--	--	--
2023Q2	Apr-23	282 (1.0)	--	--	--	--	--	--
2023Q4	Oct-23	319 (2.1)	--	--	--	--	--	--
2024Q2	Apr-24	305 (2.1)						
2024Q4	Oct-24	150 (0.20)	--	--	--	--	--	--

Notes:
1. The VP-9 soil gas sample was collected in May 2017.
2. VP-10 was installed as a vapor sampling point but was flooded during all of the sampling events shown.
3. VP-9 was flooded in July 2015; a groundwater sample was collected.
4. Neither a soil gas sample or water sample was able to be collected at VP-9 in all samples after April 2019 due to flooding and a lack of recharge.

Abbreviations:
U -- Not Detected.
D -- Compound Quantitated on a Diluted Sample.
( ) -- Detection Limit.
-- -- Sample Not Collected.

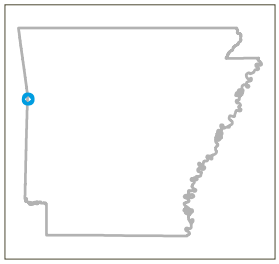
RAMBOLL

Figures



PROJECT: 1940108132 | DATED: 1/7/2025 | DESIGNER: ATABARES
<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure_1

Map Scale: 1:24,000 | Map Center: 94°25'6"W 35°19'17"N



KEY MAP (not to scale)

0 1,000 2,000 Feet

SITE LOCATION

2024 Annual Report
Whirlpool
Fort Smith, Arkansas

FIGURE 01

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

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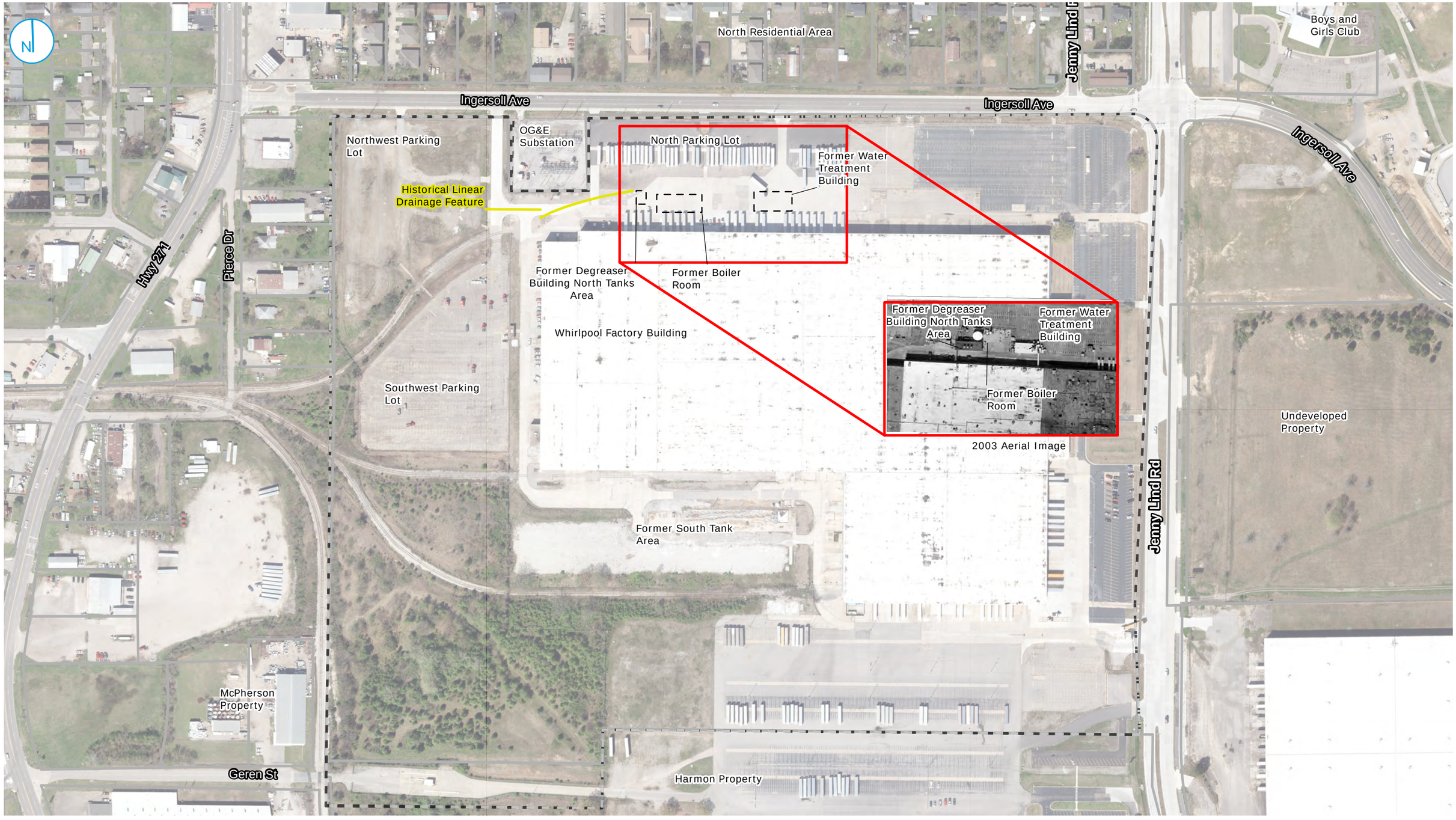

Approximate Property Boundary
County Assessor Parcel
Outline of Former Buildings

0 250 500 Feet

SITE LAYOUT

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Whirlpool
Fort Smith, Arkansas

FIGURE 02

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

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<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 3a

PROJECT: 1940108132 | DATED: 2/5/2025 | DESIGNER: ATABARES

Injection Well
Monitoring Well
Vapor Point
County Assessor Parcel

0 250 500 Feet

Notes
1) Blue symbols represent locations sampled semi-annually and annually
2) Locations sampled annually only

GROUNDWATER SAMPLING NETWORK
NORTH OF INGERSOLL AVENUE

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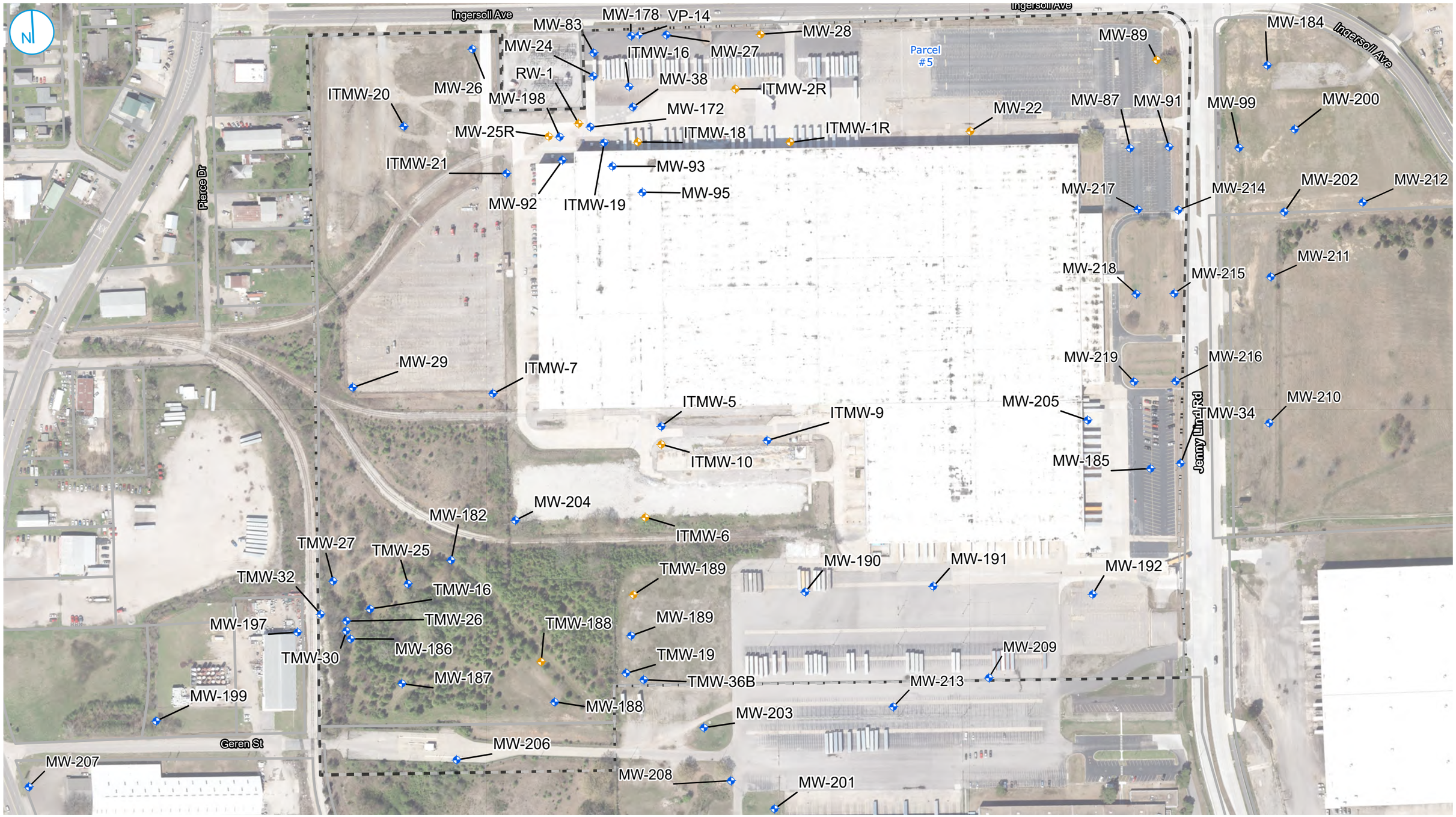
Whirlpool
Fort Smith, Arkansas

FIGURE 03A

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

<LINK>C:\Users\ATABARES\OneDrive<LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R.aprx\Figure 3B

PROJECT: 1940108132 | DATED: 2/3/2025 | DESIGNER: ATABARES



+ Injection Well
Monitoring Well
Vapor Point

Approximate Property Boundary
County Assessor Parcel

0 250 500 Feet

Notes
1) Blue symbols represent locations sampled semi-annually and annually
2) Orange symbols represent locations sampled annually only

GROUNDWATER SAMPLING NETWORK
SOUTH OF INGERSOLL AVENUE

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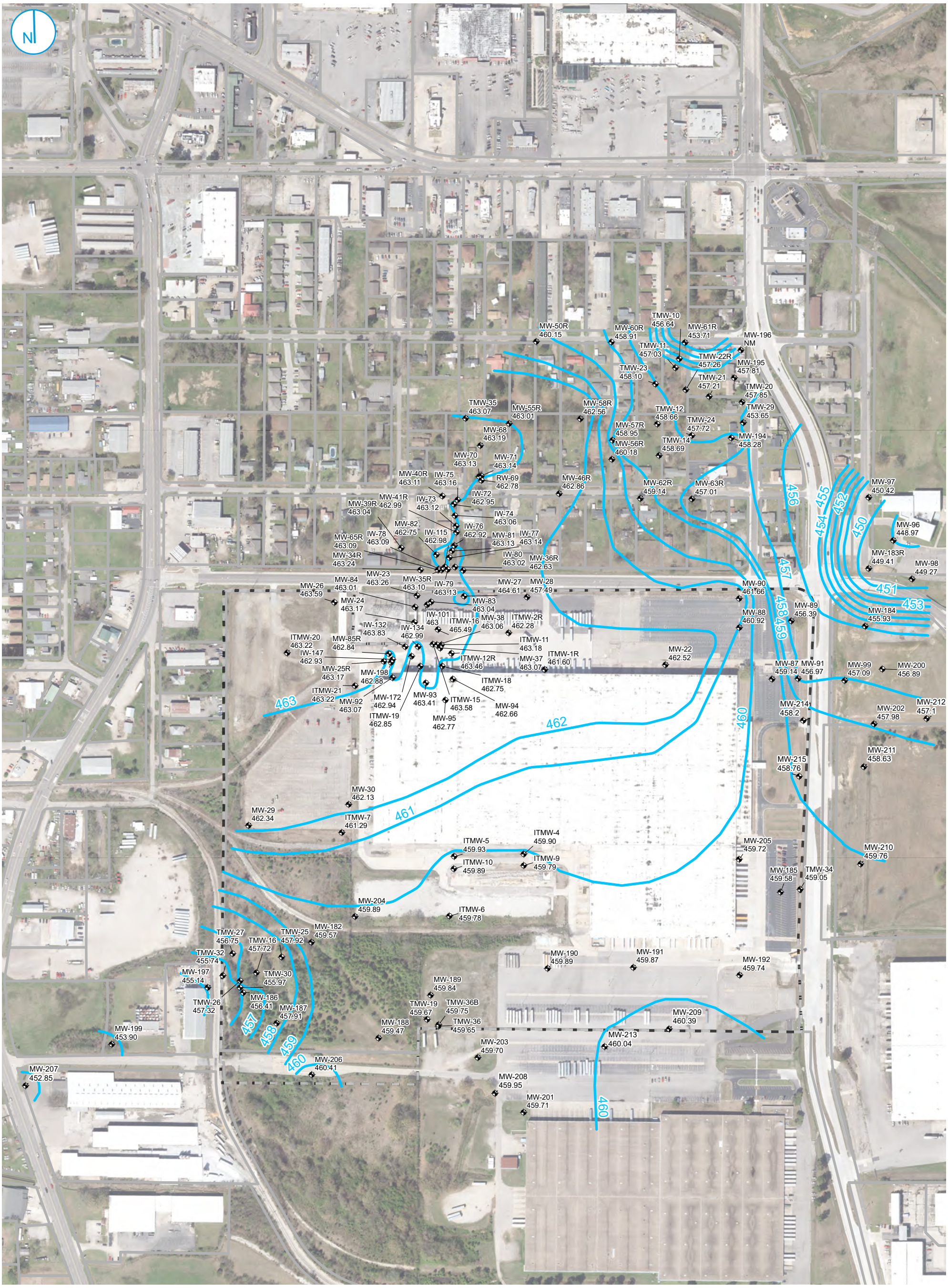
Whirlpool
Fort Smith, Arkansas

FIGURE 03B

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



- Monitoring Wells
- Groundwater Contours (1-ft Interval)
- Approximate Property Boundary
- County Assessor Parcel

0 250 500 Feet

Notes
1) Groundwater elevations reported in feet above mean sea level
2) The water level at ITMW-16, TMW-29, TMW-20 and MW-28 were not used in the interpolation due to anomalous measurement
3) NM = Not Measured
4) Aerial imagery from City of Fort Smith, 2020

2024 ANNUAL SAMPLING
POTENTIOMETRIC SURFACE

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Whirlpool
Fort Smith, Arkansas

FIGURE 04

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\WhirlpoolWhirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 5

PROJECT: 1940108132 | DATED: 2/6/2025 | DESIGNER: ATABARES

N

Parcel #4

Parcel #6

Parcel #3

Parcel #2

Parcel #1

Parcel #5

MW-177/MW-70
Oct. 2024: -0.34 ↓
Apr. 2024: -0.40 ↓

MW-177
466.65

MW-70
463.13

MW-176/MW-46R
Oct. 2024: 0.01 ↑
Apr. 2024: 0.01 ↑

MW-176
462.84

MW-46R
462.88

MW-175
462.22

MW-175 / Avg. of MW-46R and MW-56R
Oct. 2024: -0.15 ↓
Apr. 2024: 0.04 ↑

MW-56R
460.18

MW-174/MW-63R
Oct. 2024: -0.36 ↓
Apr. 2024: -0.09 ↓

MW-174
458.97

MW-63R
457.01

MW-178/MW-83
Oct. 2024: -0.43 ↓
Apr. 2024: -0.39 ↓

MW-178
470.39

MW-83
463.04

Jacobs Ave

Ingersoll Ave

Jenny Lind Rd

Vertical Gradient Direction
↑ Upward
↓ Downward
- Flat

Approximate Property Boundary
County Assessor Parcel

Deep Monitoring Well Location
Shallow Monitoring Well Location

0 250 500 Feet

VERTICAL GROUNDWATER GRADIENTS OBSERVED IN NESTED WELLS
OCTOBER 2024

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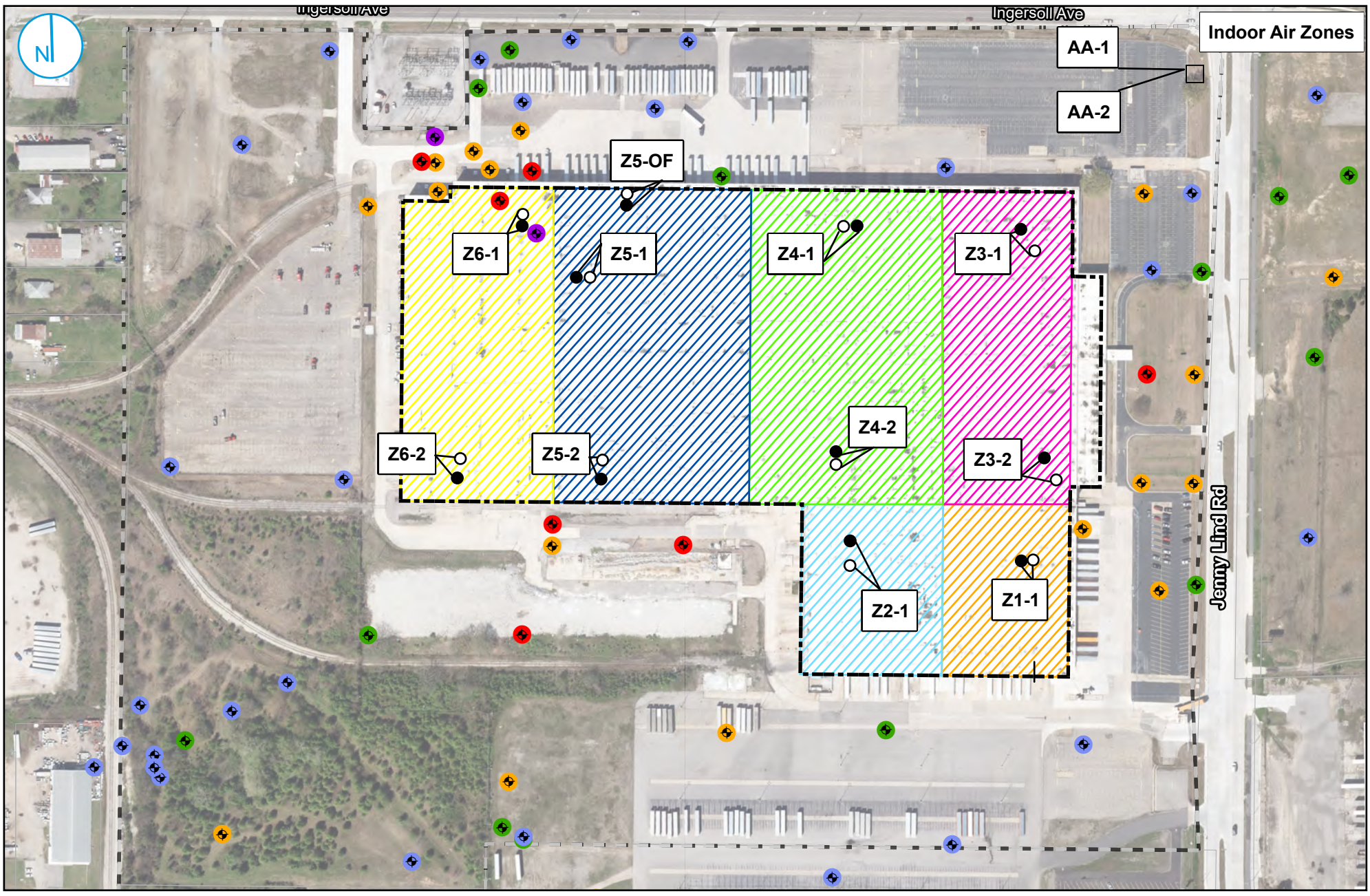
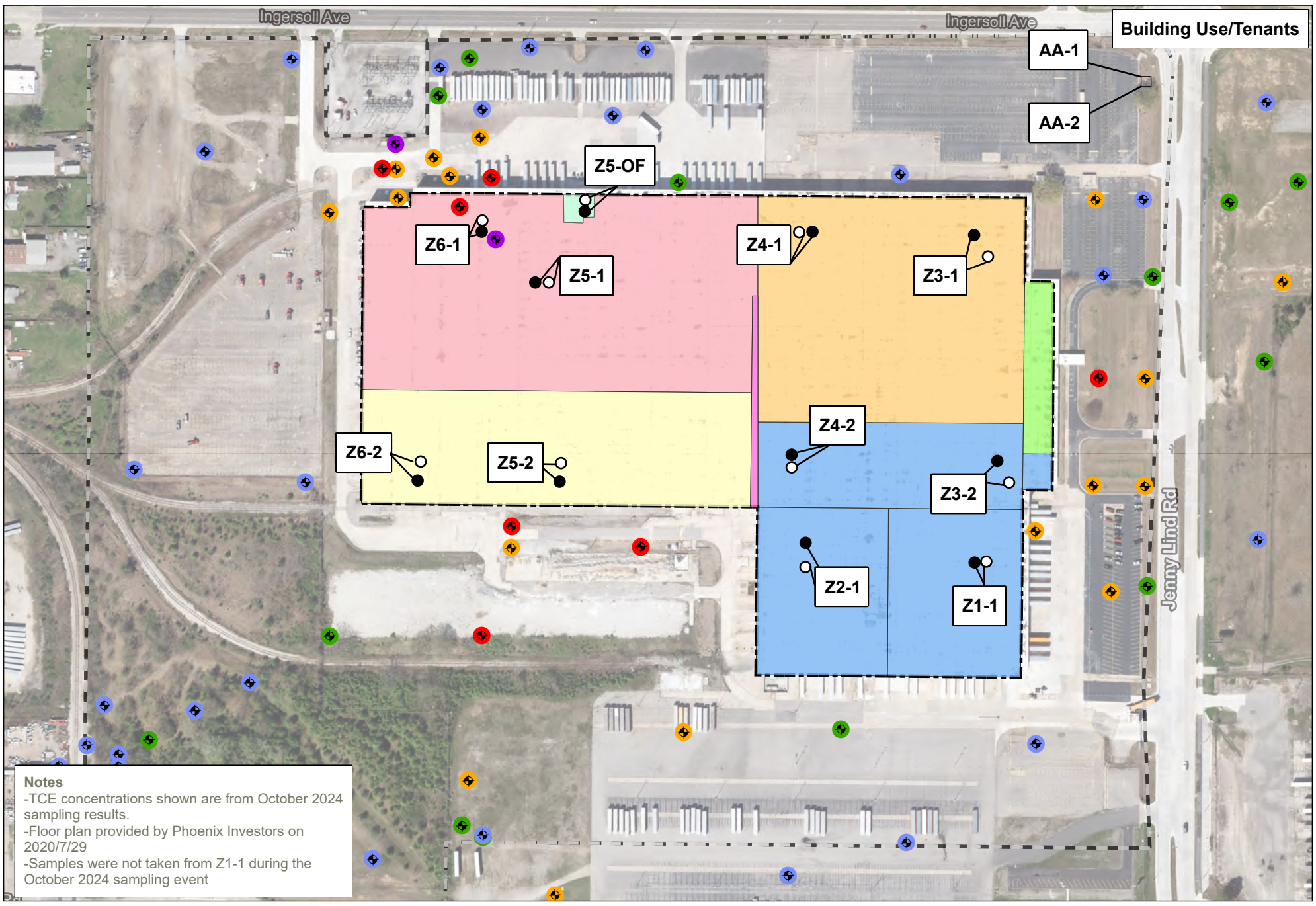
FIGURE 05

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL





TCE Concentration (µg/L)
- < 5
- 5.1 - < 100
- 101 - < 1000
- 1001 - < 10000
- < 62300
- Ambient Air Background
- Indoor Air Sample Location
- Sub-Slab Sample Location

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Building Boundary
- Approximate Property Boundary

Buiding Use/Tenants

Zone
- MP Warehouse
- Unoccupied
- Stryten
- Qualserv
- Common Space
- Office Vacancy 1st and 2nd Floor

0 250 500 Feet

INDOOR AIR AND SUBSLAB SAMPLING LOCATIONS

FIGURE 06

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Whirlpool
Fort Smith, Arkansas

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

TCE Concentration (µg/L)
- < 5
- 5.1 - < 100
- 100.1 - < 1000
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

Notes
1) Trichloroethene (TCE) in groundwater reported in µg/L
2) ND = Non Detect

2024 EAST AREA INVESTIGATION

2024 Annual Report
Whirlpool
Fort Smith, Arkansas

FIGURE 07

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

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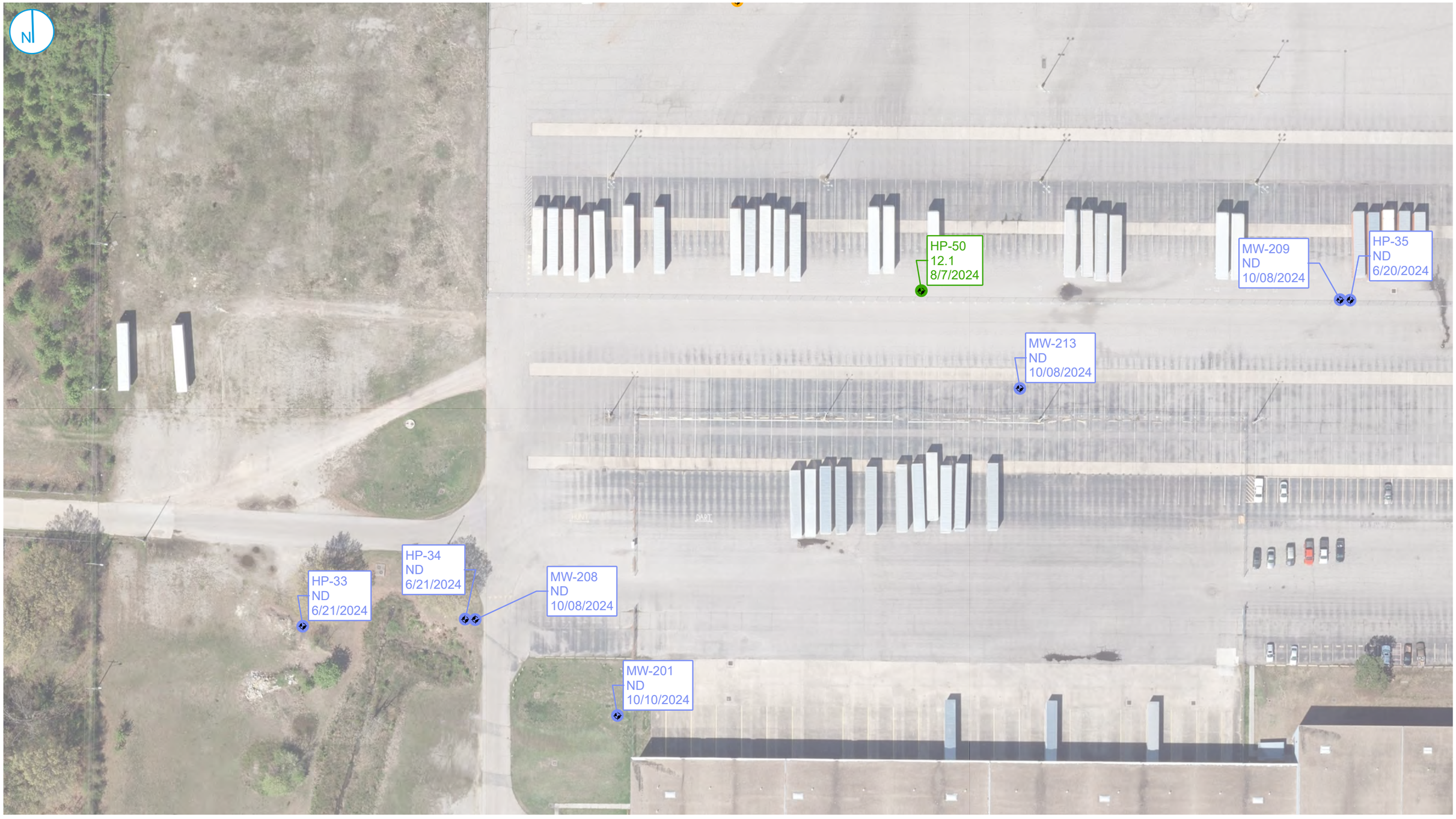
PROJECT: 1940108132 | DATED: 1/29/2025 | DESIGNER: ATABARES



TCE Concentration (µg/L)

- < 5
- 5.1 - < 100
- 100.1 - < 1000
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

Notes

1) Trichloroethene (TCE) in groundwater reported in µg/L
2) ND = Non Detect

2024 SOUTH AREA INVESTIGATION

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Whirlpool
Fort Smith, Arkansas

FIGURE 08

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 9

PROJECT: 1940108132 | DATED: 1/29/2025 | DESIGNER: ATABARES

TCE Concentration (µg/L)
- < 5
- 5.1 - < 100
- 100.1 - < 1000
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

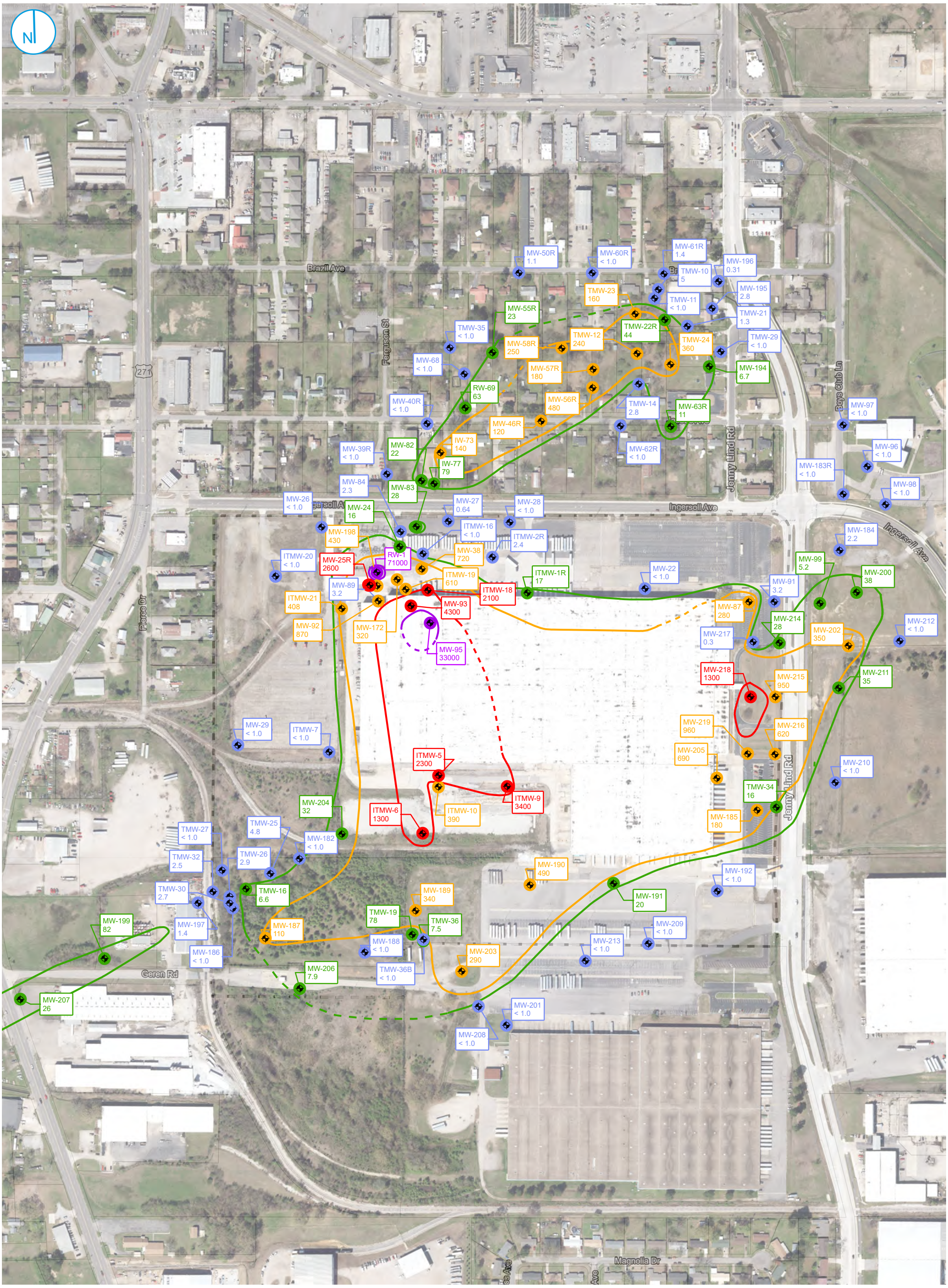
Notes
1) Trichloroethene (TCE) in groundwater reported in µg/L
2) ND = Non Detect

2024 SOUTHWEST AREA INVESTIGATION

2024 Annual Figures
Whirlpool
Fort Smith, Arkansas

FIGURE 09

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY



Oct. 2024 TCE Isoconcentration Line
- 5 µg/L
- 100 µg/L
- 1,000 µg/L
- 10,000 µg/L
- Approximate Property Boundary
- County Assessor Parcel

TCE Concentration (µg/L)
- < 5
- 5.1 - < 100
- 101 - < 1000
- 1001 - < 10000
- < 62300

0 250 500 Feet

Notes
1) Dashed lines are inferred Isoconcentration Lines
2) Trichloroethene (TCE) in groundwater reported in µg/L
3) TCE samples collected in October 2024

2024 ANNUAL BASAL TRANSMISSIVE ZONE TCE ISOCONCENTRATION MAP

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Whirlpool
Fort Smith, Arkansas

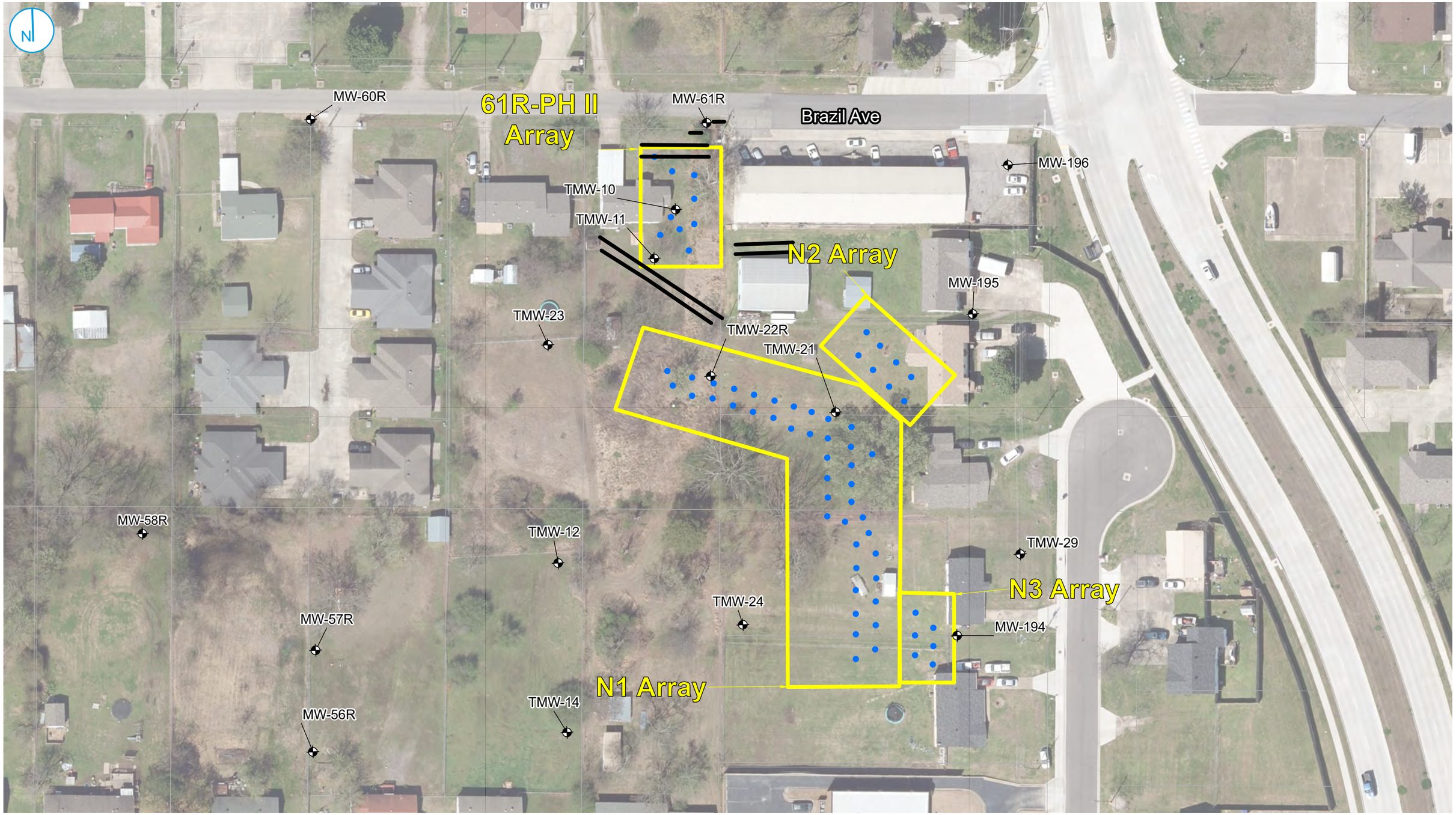
FIGURE 10

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 11

PROJECT: 1940108132 | DATED: 2/2/2025 | DESIGNER: ATABARES



- Injection Points
- Monitoring Well Locations
- 2015 ISCR Treatment Zones
- 2018 Treatment Zones
- County Assessor Parcel

0 100 200 Feet

2018 TREATMENT ZONE INJECTION POINTS
NORTH PLUME

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Whirlpool
Fort Smith, Arkansas

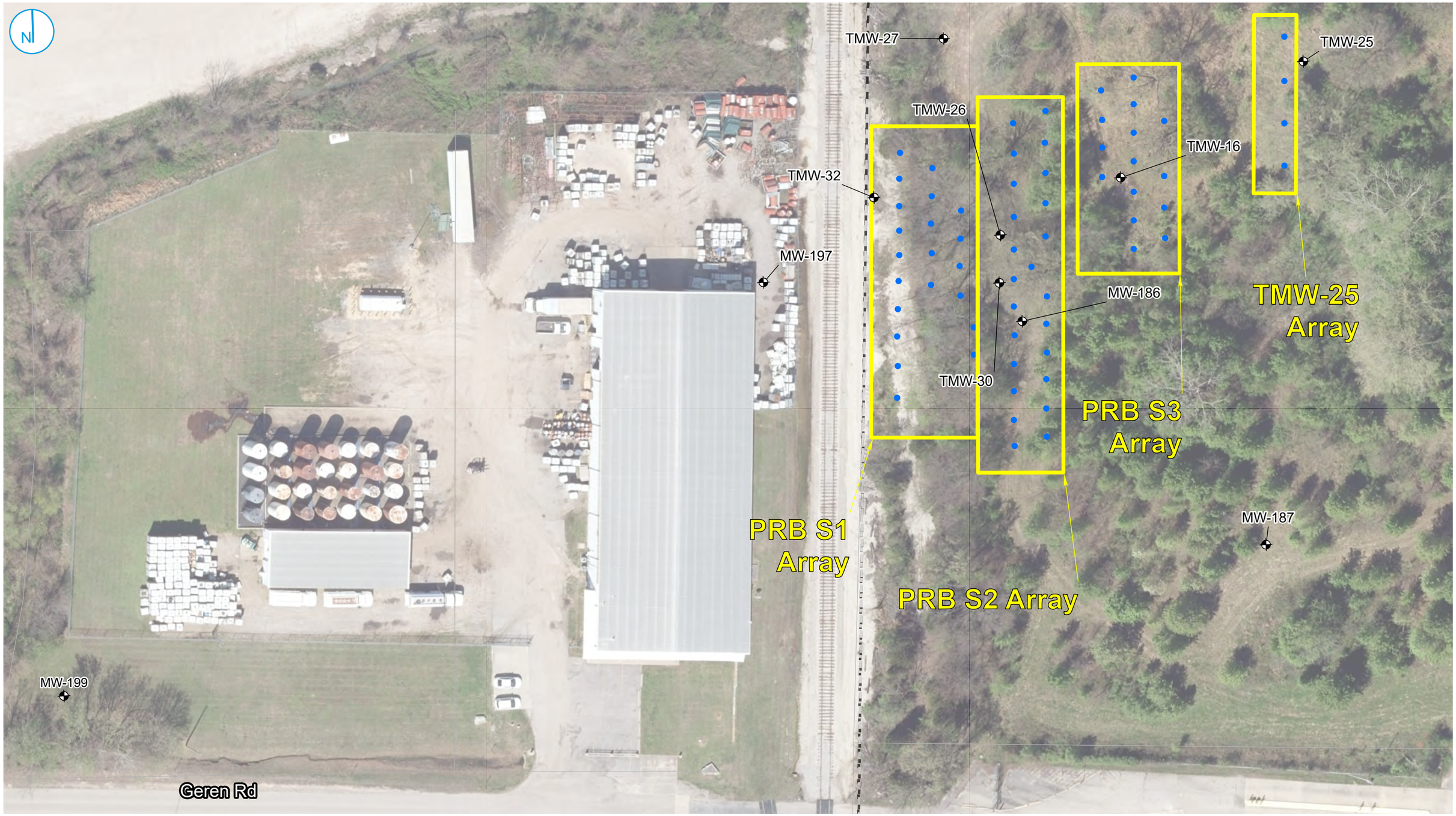
FIGURE 11

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 12

PROJECT: 1940108132 | DATED: 2/2/2025 | DESIGNER: ATABARES



Injection Points
Monitoring Well Locations
2018 Treatment Zones
Approximate Property Boundary
County Assessor Parcel

0 100 200 Feet

2018 TREATMENT ZONE INJECTION POINTS
SOUTHWEST PLUME

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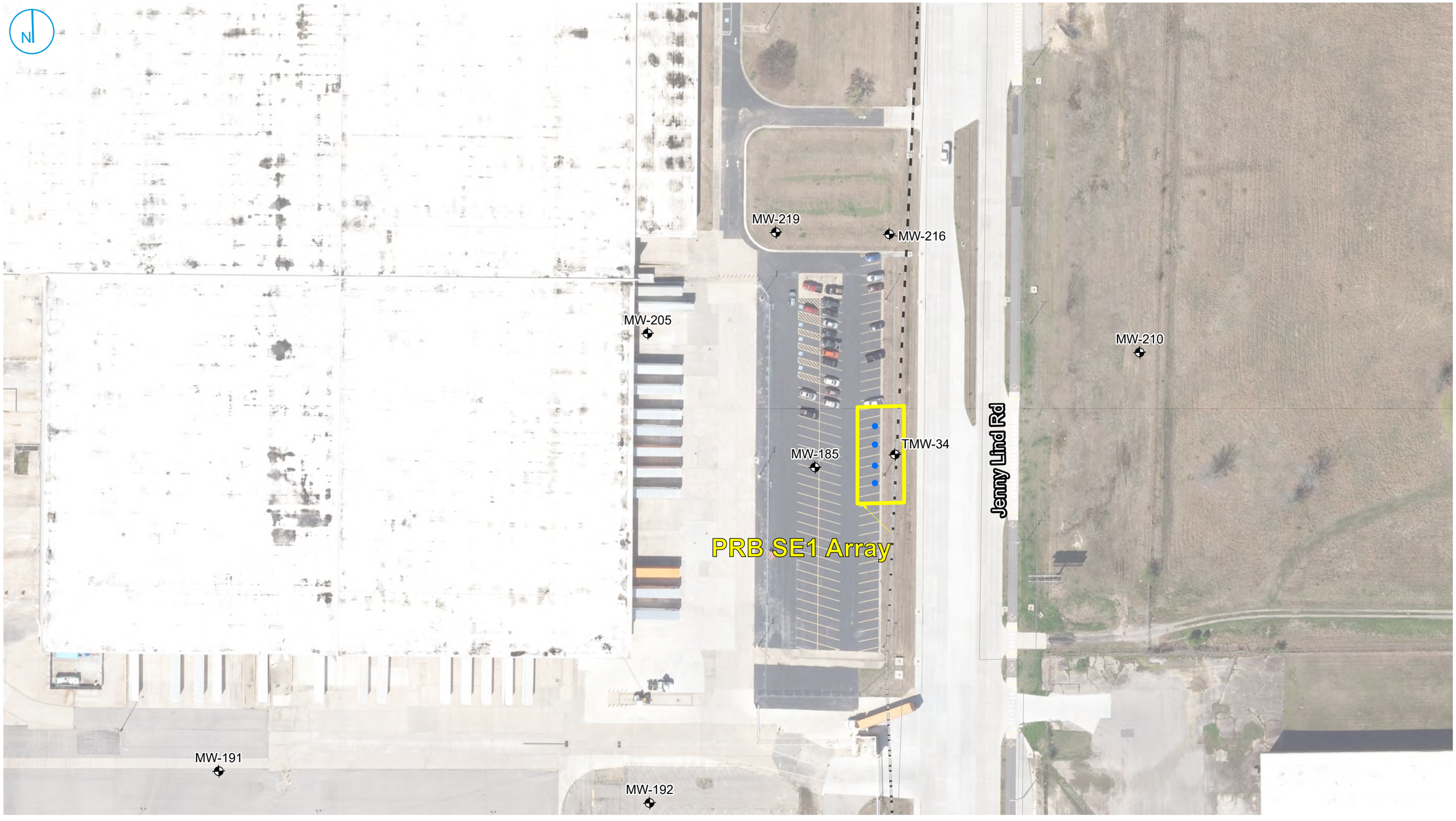
FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 13



PROJECT: 1940108132 | DATED: 2/2/2025 | DESIGNER: ATABARES

- Injection Points
- Monitoring Well Locations
- 2018 Treatment Zones
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

2018 TREATMENT ZONE INJECTION POINTS
SOUTHEAST PLUME

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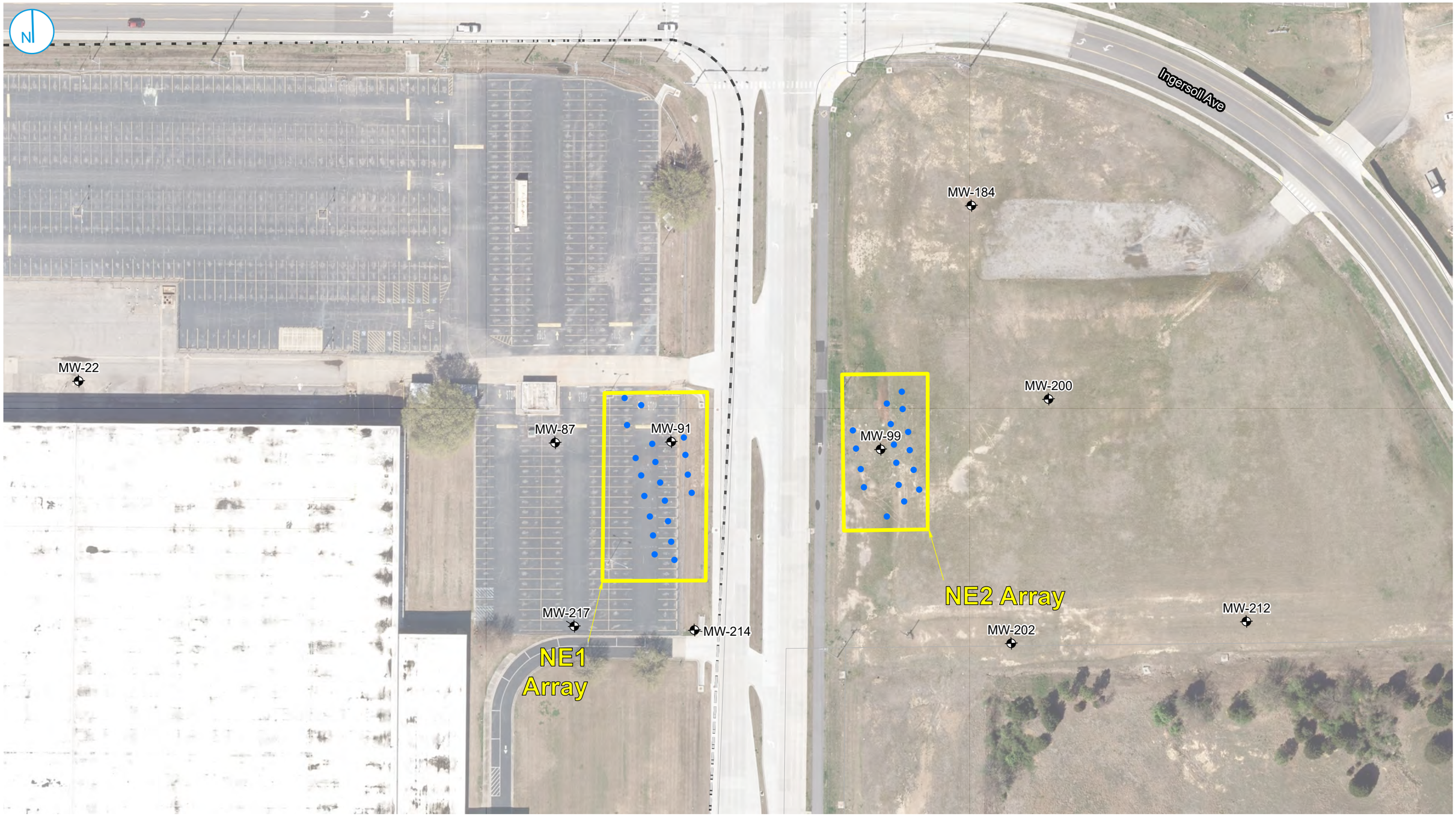
FIGURE 13

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 14



PROJECT: 1940108132 | DATED: 2/5/2025 | DESIGNER: ATABARES

- Injection Points
- Monitoring Well Locations
- 2019 Treatment Zones
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

2019 TREATMENT ZONE INJECTION POINTS
NORTHEAST PLUMES

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Forth Smith, Arkansas

FIGURE 14

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

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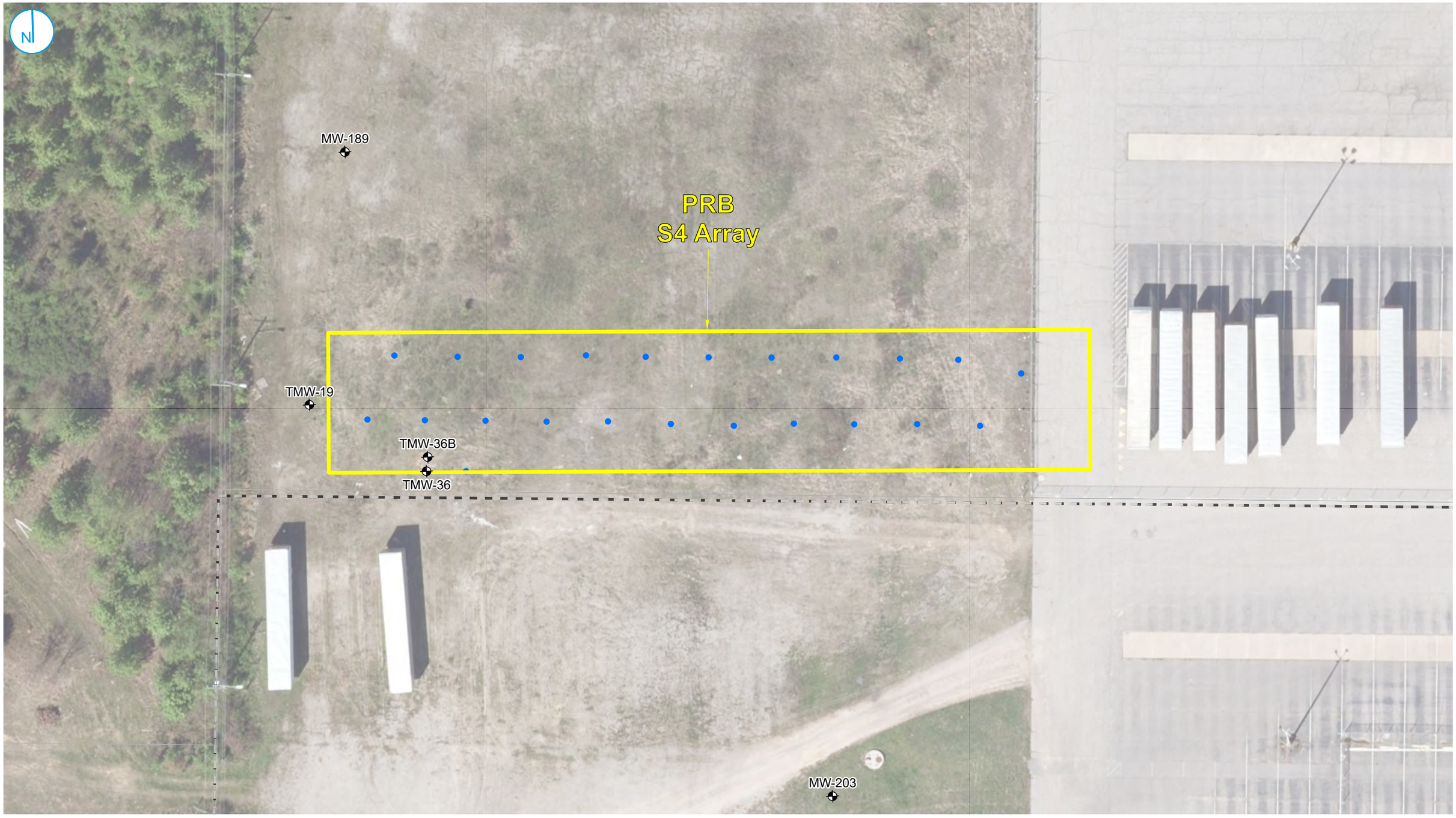
PROJECT: 1940108132 | DATED: 2/2/2025 | DESIGNER: ATABARES



- Injection Points
- Monitoring Well Locations
- 2020 Treatment Zones
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

2020 TREATMENT ZONE INJECTION POINTS
SOUTH PLUME

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Whirlpool
Fort Smith, Arkansas

FIGURE 15

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 17

PROJECT: 1940108132 | DATED: 2/2/2025 | DESIGNER: ATABARES

- Injection Points
- Monitoring Well Locations
- 2024 Treatment Zones
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

2024 TREATMENT ZONE INJECTION POINTS
NECK AREA

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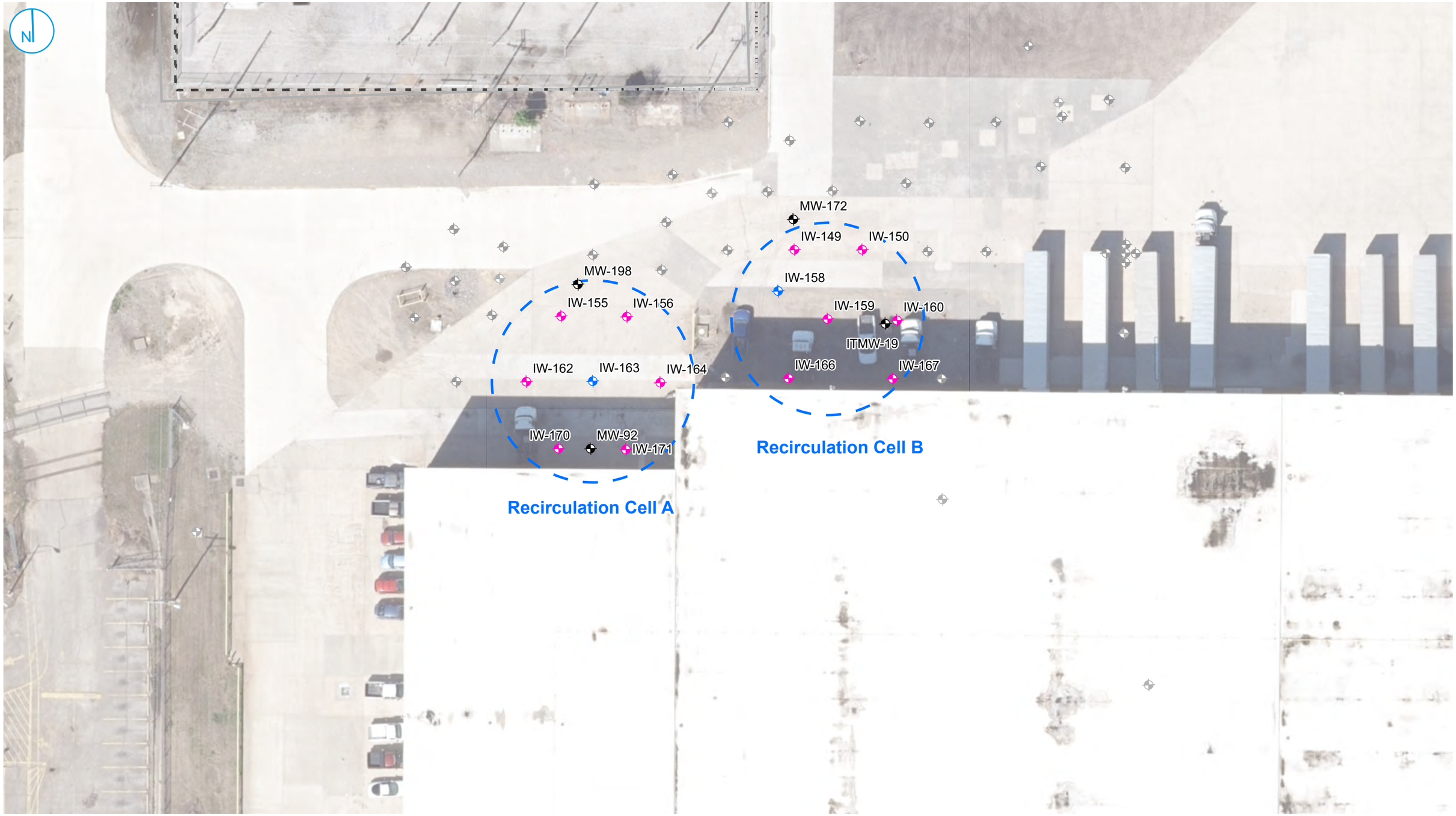
Whirlpool
Fort Smith, Arkansas

FIGURE 16

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

<LINK>C:\Users\ATABARES\OneDrive</LINK> - Ramboll\GIS\GIS\Whirlpool\Whirlpool 2024 M&R\Whirlpool 2024 M&R.aprx\Figure 17



PROJECT: 1940101832 | DATED: 2/3/2025 | DESIGNER: ATABARES

Extraction Well
Injection Well
Monitoring Well
Other Well

Circulation Cells
Approximate Property Boundary
County Assessor Parcel

0 100 200 Feet

2024 SOURCE AREA REDUCTION

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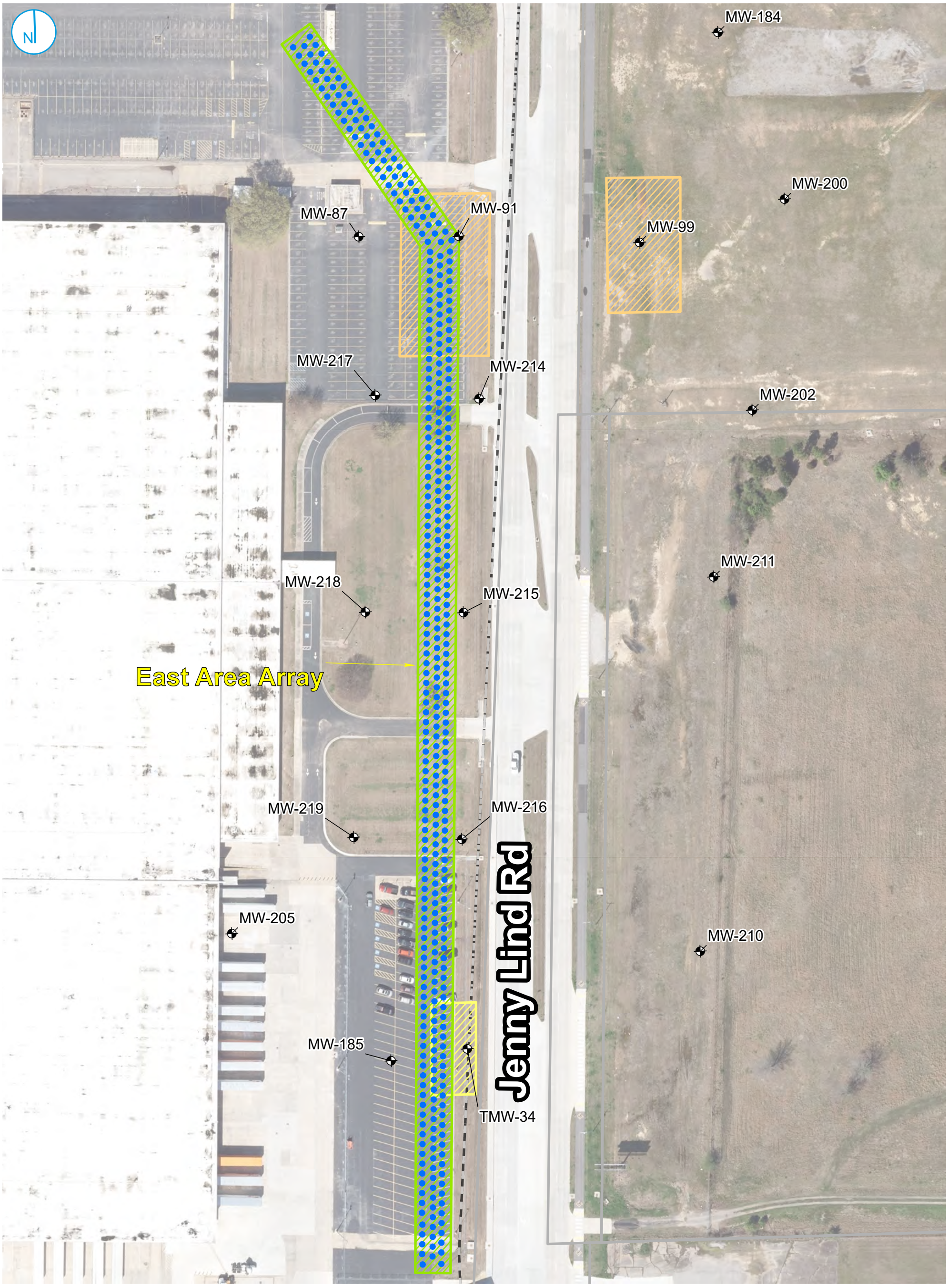
Whirlpool
Fort Smith, Arkansas

FIGURE 17

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL



- Injection Points
- Monitoring Well Locations
- 2018 Treatment Zones
- 2019 Treatment Zones
- 2024 Treatment Zones
- Approximate Property Boundary
- County Assessor Parcel

0 100 200 Feet

2024 TREATMENT ZONE INJECTION POINTS
EAST AREA

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Whirlpool
Fort Smith, Arkansas

FIGURE 18

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY

RAMBOLL

Appendix A

Calibration Logs

Field Equipment Calibration Checklist

Date: 10/7/24

Calibrated by: MBarley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 07/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4601317 **Exp:** 7/30/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B1156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0910 + 10min = 0920
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.387 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA04645

1. Specific Conductance: 7028 us/cm
2. ORP: 227.6
3. pH:
   - Point 1: 7.01
   - Point 2: 3.77
   - Point 3: 9.96
4. DO: 98.7 %

Turbidity Meter Model/Serial Number: Checks passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0583 **Exp:** 8/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4601317 **Exp:** 4/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1156 **Exp:** 8/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes): 0940 + 10min = 950

1. Ensure unit has been on for at least 10 minutes: Initial time: 0940 + 10min = 950
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA08846

1. Specific Conductance: 6891 uS/cm
2. ORP: 228 mV
3. pH:
   - Point 1: 7.02
   - Point 2: 3.87
   - Point 3: 9.95
4. DO: 105.1 %

Turbidity Meter Model/Serial Number: Cal Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 712025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 712026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0553 **Exp:** 8/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46D1317 ~~46H1156~~ **Exp:** 8/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1K6 **Exp:** 8/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0955 + 10min = 1005
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05785

1. Specific Conductance: 7039 us/cm
2. ORP: 227.1 mV
3. pH:
   - Point 1: 6.71
   - Point 2: 3.70
   - Point 3: 10.00
4. DO: 96.5 %

Turbidity Meter Model/Serial Number: Cal. Check Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Barlay

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0053 **Exp:** 8/2028
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GD317 **Exp:** 4/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/2028
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1040 + 10min = 1050
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 14H04893

1. Specific Conductance: 6627 us/cm
2. ORP: 227.7mV
3. pH:
   - Point 1: 6.80
   - Point 2: 3.85
   - Point 3: 9.73
4. DO: 99.3%

Turbidity Meter Model/Serial Number: Cal Check Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0053 **Exp:** 8/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 460317 **Exp:** 4/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1156 **Exp:** 8/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1050 + 10min = 1100
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA04977

1. Specific Conductance: 0.363 us/cm
2. ORP: 226.4 mV
3. pH:
   - Point 1: 6.73
   - Point 2: 4.14
   - Point 3: 10.01
4. DO: 98.7 %

Turbidity Meter Model/Serial Number: Cal Check Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0053 **Exp:** 8/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 460317 **Exp:** 4/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1156 **Exp:** 8/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1105 + 10min = 1115
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA01762

1. Specific Conductance: 6971 uS/cm
2. ORP: 227.8 mV
3. pH:
   - Point 1: 6.98
   - Point 2: 3.87
   - Point 3: 9.87
4. DO: 99.4 %

Turbidity Meter Model/Serial Number: Cal Check Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/7/2024

Calibrated by: M. Baney

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4611853 **Exp:** 8/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4601317 **Exp:** 9/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4611156 **Exp:** 8/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1120 + 10min = 1130
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = _____ mmHg - 15.169 = 750.38 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FH05114

1. Specific Conductance: 6932us/ms
2. ORP: 228.2mV
3. pH:
   - Point 1: 7.01
   - Point 2: 3.99
   - Point 3: 10.02
4. DO: 99.2

Turbidity Meter Model/Serial Number: Cal Check Passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/8/24

Calibrated by: Collin Cox

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 241010035I **Exp:** 4/19/2029

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GD1317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:37 + 10min = 7:47
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.08 in. x 25.4 = 764.0 mmHg - 15.169 = 748.34 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 6585 uS/cm
2. ORP: 234.9
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.08
4. DO: 10.84

Turbidity Meter Model/Serial Number: Hach 2100Q FA06071

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/8/24

Calibrated by: G. Penaflor

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** APR/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/31/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4601317 **Exp:** 4/30/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 1212 + 10min = 1222
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.07 in. x 25.4 = 763.778 mmHg - 15.169 = 748.609 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 7000
2. ORP: 240.0
3. pH:
   - Point 1: 7.02
   - Point 2: 4.00
   - Point 3: 10.03
4. DO: 98.5%

Turbidity Meter Model/Serial Number:

RAMBOLL

See previous day for lot # and exp dates

Field Equipment Calibration Checklist

Date: 10/8/2024

Calibrated by: M. Borley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** SAME **Exp:** ✓

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** ✓ **Exp:** ✓

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** ✓ **Exp:** ✓
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** ✓ **Exp:** ✓
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** ✓ **Exp:** ✓
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0725 + 10min = 735
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.06 in. x 25.4 = 763.524 mmHg - 15.169 = 748.355 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05114

1. Specific Conductance:
2. ORP: 227.8mV
3. pH:
   - Point 1: 7.02
   - Point 2: 3.79
   - Point 3: 9.94
4. DO: 98.6%

Turbidity Meter Model/Serial Number: FA06376 Check passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/8/24

Calibrated by: PO

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46616B6 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 240100357 **Exp:** 4/1/2024

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GM0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GM0317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GM0556 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:10 + 10min = 720
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.06 in. x 25.4 = 763.5 mmHg - 15.169 = 748.4 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05520

1. Specific Conductance: 5,000 µS/cm
2. ORP: 240
3. pH:
   - Point 1: 7
   - Point 2: 4
   - Point 3: 10
4. DO: 100%

Turbidity Meter Model/Serial Number: HACH2100Q FA03013

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/8/24

Calibrated by: Patrick Verbryke

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46H0553 **Exp:** 8/30/26

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/2026

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46D1317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:10 + 10min = 7:20
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   ____ in. x 25.4 = 760 mmHg - 15.169 = ~~763~~ 749 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: ~~580~~ 2967
2. ORP: 233.1
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.08
4. DO: ~~652~~ 98.6%

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/8/24

Calibrated by: ST

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46611686 **Exp:** 07/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 07/26

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H0553 **Exp:** 08/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below. 7.03
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46D1317 **Exp:** 04/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below. 4.00
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46H1156 **Exp:** 08/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water. 10.10

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0710 + 10min = 0720
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.06 in. x 25.4 = 763.52 mmHg - 15.169 = 748.35 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!) 98.5 %
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample" 10.10
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance:
2. ORP:
3. pH:
   - Point 1:
   - Point 2:
   - Point 3:
4. DO:

Turbidity Meter Model/Serial Number:

Cal passed 10/8

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/9/24

Calibrated by: Patrick Verbryke

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 460749 **Exp:** Feb/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** APR/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** JUL/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4660637 **Exp:** Feb/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 460253 **Exp:** Feb/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes): 7:23 + 10min = 7:33

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:23 + 10min = 7:33
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   ____ in. x 25.4 = 764 mmHg - 15.169 = 749 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number: 14H102454?

1. Specific Conductance: ~~660~~ PV2018
2. ORP: 182.1
3. pH:
   - Point 1: 7.10
   - Point 2: 3.99
   - Point 3: 10.09
4. DO: 99.1

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/9/24

Calibrated by: Collin Cox

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4GGK686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 23J100312 **Exp:** ~~_____~~ 2028-09-24

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GD1317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:27 + 10min = ~~7:35~~ 7:37
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.03 in. x 25.4 = 762.8 mmHg - 15.169 = 747.593 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 6977
2. ORP: 235
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.00
4. DO: 101.7

Turbidity Meter Model/Serial Number: Hach 2100 Q FA06071

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/9/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4680749 **Exp:** 2/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** 4/2025

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** 7/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680637 **Exp:** 2/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680253 **Exp:** 2/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0800 + 10min = 0810
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.08 in. x 25.4 = 764 mmHg - 15.169 = 748.9 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05114

1. Specific Conductance: 1407 us/cm
2. ORP: 228.2 mV
3. pH:
   - Point 1: 7.01
   - Point 2: 4.00
   - Point 3: 9.91
4. DO: 102.5%

Turbidity Meter Model/Serial Number: Cal Check passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/9/24

Calibrated by: PO

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** 7/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4601317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4641156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes): 7:12 + 10min = 7:22

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:12 + 10min = 7:22
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   29.08 in. x 25.4 = 764.03 mmHg - 15.169 = 748.86 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number: FA05520

1. Specific Conductance: 7,000
2. ORP: 240
3. pH:
   - Point 1: 7
   - Point 2: 4
   - Point 3: 10
4. DO: 100%

Turbidity Meter Model/Serial Number: HACH 2100Q FA03013

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/9/24

Calibrated by: ST

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 1646486 **Exp:** 7/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 6658 **Exp:** 7/26

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4640553 **Exp:** 8/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below. 7.04
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4640317 **Exp:** 4/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below. 4.00
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4641576 **Exp:** 8/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below 10.08
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0705 + 10min = 0715
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.07 in. x 25.4 = 763.78 mmHg - 15.169 = 748.61 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize. 98.5%
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample" 9.71
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance:
2. ORP:
3. pH:
   - Point 1:
   - Point 2:
   - Point 3:
4. DO:

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/24

Calibrated by: Collin Cox

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4661686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 231100312 **Exp:** 9/24/28

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** 7/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680637 **Exp:** 2/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680253 **Exp:** 2/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:40 + 10min = 7:50
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.15 in. x 25.4 = 765.81 mmHg - 15.169 = 750.641 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 0928
2. ORP: 235
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.10
4. DO: 101.9%

Turbidity Meter Model/Serial Number: Hach 2100 Q FA06071

RAMBOLL

Field Equipment Calibration Checklist

same as 10/8

Date: 10/10

Calibrated by: CP

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** _____ **Exp:**_____

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** Apr/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0734 + 10min = 0744
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.13 in. x 25.4 = 765.302 mmHg - 15.169 = 750.133 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 14135

1. Specific Conductance:
2. ORP: 240.0
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.09
4. DO: 98.7

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/2024

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4680749 **Exp:** 2/2025

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** 4/2025

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** 7/2026
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680637 **Exp:** 2/2026
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680253 **Exp:** 2/2026
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0720 + 10min = 0730
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.11 in. x 25.4 = 764.794 mmHg - 15.169 = 749.6 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05114

1. Specific Conductance: 7152 us/cm
2. ORP: 236.1 mV
3. pH:
   - Point 1: 6.70
   - Point 2: 3.68
   - Point 3: 9.72
4. DO: 100.7%

Turbidity Meter Model/Serial Number: Calibration Check passed

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/24

Calibrated by: PO

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46B0749 **Exp:** 2/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 46B0438 **Exp:** 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46612 9 **Exp:** 2/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0637 **Exp:** 2/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0263 **Exp:** 2/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:09 + 10min = 7:19
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.11 in. x 25.4 = 764.79 mmHg - 15.169 = 749.62 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number: FA0552D

1. Specific Conductance: 1413
2. ORP: 240
3. pH:
   - Point 1: 7
   - Point 2: 4
   - Point 3: 10
4. DO: 100 %

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/24

Calibrated by: J. Kahky

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4GG1686 **Exp:** 7/31/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4GG0438 **Exp:** 4/1/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0555 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/31/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GD1317 **Exp:** 4/30/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0725 + 10min = 0735
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.12 in. x 25.4 = 765.048 mmHg - 15.169 = 749.879 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA02991

1. Specific Conductance: 6,864 µS/cm
2. ORP: 204.4 mV
3. pH:
   - Point 1: 6.92
   - Point 2: 3.66
   - Point 3: 9.91
4. DO: 78.0%

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/24

Calibrated by: Patrick Verbryk

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4GB0749 **Exp:** Feb/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4GC0438 **Exp:** April/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** Jul/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GB1673 **Exp:** Feb/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661129 **Exp:** Feb/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 708 + 10min = 718
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   ____ in. x 25.4 = 766 mmHg - 15.169 = 751 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 19H102547

1. Specific Conductance: 1376
2. ORP: 236
3. pH:
   - Point 1: 6.99
   - Point 2: 3.99
   - Point 3: 9.99
4. DO: ~~101~~ 100

Turbidity Meter Model/Serial Number: FA06068

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/10/24

Calibrated by: ST

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46B0749 **Exp:** 2/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below. 709
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 466438 **Exp:** 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below. 231.5
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 466128 **Exp:** 6/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below. 7.02
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0637 **Exp:** 2/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below. 4.00
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0253 **Exp:** 2/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below 10.06
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0705 + 10min = 0715
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.11 in. x 25.4 = 764.79 mmHg - 15.169 = 749.63 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!) 98.6%
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample" 10.12
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance:
2. ORP:
3. pH:
   - Point 1:
   - Point 2:
   - Point 3:
4. DO:

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/18/24

Calibrated by: Collin Cox

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): Lot #: 4GB0749 Exp: 2/25
~~4GG0438~~ " ~~4/25~~ "

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): Lot #: 4GG0438 Exp: 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. Lot # 4GG1129 Exp: 7/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. Lot # 4GB0637 Exp: 2/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. Lot # 4GB0253 Exp: 2/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 730 + 10min = 740
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.14 in. x 25.4 = 765.56 mmHg - 15.169 = 750.387 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number:

1. Specific Conductance: 1417
2. ORP: 230.2
3. pH:
   - Point 1: 7.03
   - Point 2: 4.00
   - Point 3: 10.04
4. DO: 102.8%

Turbidity Meter Model/Serial Number: Hach 2100QFA060711

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/11/24

Calibrated by: CoP

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4GB0749 **Exp:** Feb/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4GG0438 **Exp:** APR/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH0553 **Exp:** 8/30/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GD1317 **Exp:** 4/30/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4GH1156 **Exp:** 8/31/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0723 + 10min = 0733
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.18 in. x 25.4 = 766.572 mmHg - 15.169 = 751.403 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry: #3
YSI – Serial Number: 21C103714

1. Specific Conductance: 1413
2. ORP: 240
3. pH:
   - Point 1: 7.02
   - Point 2: 4.00
   - Point 3: 10.07
4. DO: 98.9

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/11/24

Calibrated by: M. Barley

Turn on YSI. Note time in DO section Line 1. LOT # SAME AS PREV* 10/9/24

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** _____ **Exp:**_____

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:**_____ **Exp:** _____

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ **Exp:**_____
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: _____ + 10min =_____
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   _____ in. x 25.4 = _____ mmHg - 15.169 = 751.4 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA05114

1. Specific Conductance: 1487 us/cm
2. ORP: 229.7 mV
3. pH:
   - Point 1: 6.87
   - Point 2: 4.01
   - Point 3: 10.02
4. DO: 98.4 %

Turbidity Meter Model/Serial Number: Cal Check passed

RAMBOLL

* Same as #' 10/10/24

Field Equipment Calibration Checklist

Date: 10/11/24

Calibrated by: J. Kahky

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** _____ * **Exp:** _____ *

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** _____ * **Exp:** _____ *

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ * **Exp:** _____ *
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ * **Exp:** _____ *
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** _____ * **Exp:** _____ *
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0745 + 10min = 0755
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.03 in. x 25.4 = 764.032 mmHg - 15.169 = 748.863 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: FA02991

1. Specific Conductance: 6,975 µS/cm
2. ORP: 201.6 mV
3. pH:
   - Point 1: 6.99
   - Point 2: 4.01
   - Point 3: 10.02
4. DO: 82.3%

Turbidity Meter Model/Serial Number:

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/11/24

Calibrated by: PO

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 4680749 **Exp:** 2/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661126 **Exp:** 7/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680637 **Exp:** 2/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4680253 **Exp:** 2/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 711 + 10min = 721
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.17 in. x 25.4 = 766.32 mmHg - 15.169 = 751.15 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number: FAD5520

1. Specific Conductance: 1413
2. ORP: 240
3. pH:
   - Point 1: 7
   - Point 2: 4
   - Point 3: 10
4. DO: 100%

Turbidity Meter Model/Serial Number: HACH 2100Q

RAMBOLL

Field Equipment Calibration Checklist

Date: 10/11/25

Calibrated by: Patrick Verbryke

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46B0749 **Exp:** Feb25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 46C0439 **Exp:** NR/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B 119 **Exp:** Jul/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0637 **Exp:** Feb/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below.
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.

9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0253 **Exp:** Feb/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 7:07 + 10min = 7:17
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   _____ in. x 25.4 = 766 mmHg - 15.169 = 751 mmHg
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample"
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:

YSI – Serial Number: 14H102547

1. Specific Conductance: 1439
2. ORP: 237.7
3. pH:
   - Point 1: 6.99
   - Point 2: 3.98
   - Point 3: 9.89
4. DO: 98.2

Turbidity Meter Model/Serial Number: FA06068

Field Equipment Calibration Checklist

Date: 10/11/24

Calibrated by: ST

Turn on YSI. Note time in DO section Line 1.

Specific Conductance calibration (should take *at least* 1.5 minutes): **Lot #:** 46B0745 **Exp:** 2/25

1. Pour conductivity standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in specific conductance. Note below.
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

ORP calibration (should take *at least* 1.5 minutes): **Lot #:** 4660438 **Exp:** 4/25

1. Pour ORP (Zobell) standard into calibration cup and immerse sensor.
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in ORP. Note below. 229.76
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.

3-Point pH calibration (should take *at least* 4.5 minutes):

1. Pour pH 7.0 standard into the calibration cup and immerse pH sensor. **Lot #** 4661128 **Exp:** 6/26
2. Allow *1 minute* for temperature stabilization.
3. Press "calibrate" after *30 seconds* of no significant change in pH. Note below. 7.02
4. Discard used calibration standard, and rinse calibration cup and probes with DI water.
5. Pour pH 4.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0637 **Exp:** 2/26
6. Allow *1 minute* for temperature stabilization.
7. Press "calibrate" after *30 seconds* of no significant change in pH. Note standard below. 4.00
8. Discard used calibration standard, and rinse calibration cup and probes with DI water.
9. Pour pH 10.0 standard into the calibration cup and immerse pH sensor. **Lot #** 46B0253 **Exp:** 2/26
10. Allow *1 minute* for temperature stabilization.
11. Press "calibrate" after *30 seconds* of no significant change in pH. Note below 10.05
12. Discard used calibration standard, and rinse calibration cup and probes with DI water.

Dissolved Oxygen (% DO) calibration (should take *at least* 10 minutes):

1. Ensure unit has been on for at least 10 minutes: Initial time: 0705 + 10min = 0715
2. Enter the local barometric pressure.
   (Note: to convert from inches (common on a weather app or forecast) to mmHg, multiply by 25.4, then to correct to Ft. Smith's altitude, subtract 15.169 mmHg.)
   30.17 in. x 25.4 = 766.32 mmHg - 15.169 = 751.12 mmHg 100.8
3. Place ~3mm of DI water in the bottom of the calibration cup.
4. Lightly screw on the calibration cup (only 1 or 2 threads!)
5. Allow *10 minutes* for the air in the cup to become water-saturated and temp to stabilize.
6. Press "calibrate" after *30 seconds* of no significant change in DO. Note below.
7. Discard used DI water, and rinse calibration cup and probes with DI water.

Turbidity calibration:

1. Select "measure" on the main menu, then "Turbidity – With Blank"
2. Scan a sample using the 0.0 NTU Blank solution. "Scan Blank"
3. Scan a sample using the 10 NTU standard. "Scan Sample" 9.72
4. Select "Calibrate," then use the arrow buttons to adjust the value to the standard (10.0 NTU).

Field Notebook calibration entry:
YSI – Serial Number:

1. Specific Conductance:
2. ORP:
3. pH:
   - Point 1:
   - Point 2:
   - Point 3:
4. DO:

Turbidity Meter Model/Serial Number:

RAMBOLL

Appendix B
Laboratory Analytical Data

eurofins | Air Toxics

10/28/2024
Mr. David Meyer
Ramboll
82 Corporate Woods
10851 Mastin Blvd., Suite 100
Overland Park KS 66210

Project Name: Whirlpool Annual
Project #: 1940108132
Workorder #: 2410344

Dear Mr. David Meyer

The following report includes the data for the above referenced project for sample(s) received on 10/9/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

eurofins | Air Toxics

WORK ORDER #: 2410344

Work Order Summary

CLIENT:	Mr. David Meyer Ramboll 82 Corporate Woods 10851 Mastin Blvd., Suite 100 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	1940108132 Whirlpool Annual
DATE RECEIVED:	10/09/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/28/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Z6-2-IA-202410	Modified TO-15	6.5 "Hg	1.9 psi
01B	Z6-2-IA-202410	Modified TO-15	6.5 "Hg	1.9 psi
02A	DUP-IA-202410	Modified TO-15	6.9 "Hg	1.9 psi
02B	DUP-IA-202410	Modified TO-15	6.9 "Hg	1.9 psi
03A	Z5-2-IA-202410	Modified TO-15	8 "Hg	1.9 psi
03B	Z5-2-IA-202410	Modified TO-15	8 "Hg	1.9 psi
04A	Z5-OF-IA-202410	Modified TO-15	6.3 "Hg	1.9 psi
04B	Z5-OF-IA-202410	Modified TO-15	6.3 "Hg	1.9 psi
05A	Z6-1-IA-202410	Modified TO-15	5.7 "Hg	1.9 psi
05B	Z6-1-IA-202410	Modified TO-15	5.7 "Hg	1.9 psi
06A	Z5-1-IA-202410	Modified TO-15	5.5 "Hg	1.9 psi
06B	Z5-1-IA-202410	Modified TO-15	5.5 "Hg	1.9 psi
07A	Z3-1-IA-202410	Modified TO-15	5.5 "Hg	1.9 psi
07B	Z3-1-IA-202410	Modified TO-15	5.5 "Hg	1.9 psi
08A	Z4-IA-202410	Modified TO-15	4.7 "Hg	1.9 psi
08B	Z4-IA-202410	Modified TO-15	4.7 "Hg	1.9 psi
09A	AA-1-202410	Modified TO-15	3.7 "Hg	1.9 psi
09B	AA-1-202410	Modified TO-15	3.7 "Hg	1.9 psi
10A	Z3-2-IA-202410	Modified TO-15	7.6 "Hg	1.9 psi
11A	Z4-2-IA-202410	Modified TO-15	7.8 "Hg	1.9 psi
12A	Z2-1-IA-202410	Modified TO-15	5.9 "Hg	2 psi
13A	Lab Blank	Modified TO-15	NA	NA
13B	Lab Blank	Modified TO-15	NA	NA

Continued on next page

eurofins | Air Toxics

WORK ORDER #: 2410344

Work Order Summary

CLIENT:	Mr. David Meyer Ramboll 82 Corporate Woods 10851 Mastin Blvd., Suite 100 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	1940108132 Whirlpool Annual
DATE RECEIVED:	10/09/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/28/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
13C	Lab Blank	Modified TO-15	NA	NA
13D	Lab Blank	Modified TO-15	NA	NA
13E	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
14B	CCV	Modified TO-15	NA	NA
14C	CCV	Modified TO-15	NA	NA
14D	CCV	Modified TO-15	NA	NA
14E	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA
15AA	LCSD	Modified TO-15	NA	NA
15B	LCS	Modified TO-15	NA	NA
15BB	LCSD	Modified TO-15	NA	NA
15C	LCS	Modified TO-15	NA	NA
15CC	LCSD	Modified TO-15	NA	NA
15D	LCS	Modified TO-15	NA	NA
15DD	LCSD	Modified TO-15	NA	NA
15E	LCS	Modified TO-15	NA	NA
15EE	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/28/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Ramboll
Workorder# 2410344

Twelve 6 Liter Summa Canister (100% SIM Ambient) samples were received on October 09, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

For samples with file names beginning with "12" and "21" the reporting limit for 1,4-Dioxane was raised from 0.10 ppbv to 0.50 ppbv due to anomalous linearity in the Initial Calibration.

Samples Z3-2-IA-202410, Z4-2-IA-202410 and Z2-1-IA-202410 were transferred from SIM/Low Level analysis to full scan TO-15 due to high levels of non-target compounds.

Dilution was performed on samples Z3-2-IA-202410, Z4-2-IA-202410 and Z2-1-IA-202410 due to matrix interference.

Dilution was performed on samples Z3-1-IA-202410 and Z4-IA-202410 due to the presence of high level target species.

The presence of a closely eluting non-target peak in sample Z6-1-IA-202410 and Z3-1-IA-202410 is interfering with the quantitation mass ion for 4-Ethyltoluene. The reported 4-Ethyltoluene concentration is flagged with a "CN" flag to indicate a high bias due to matrix contribution.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z6-2-IA-202410

Lab ID#: 2410344-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.23	0.81	1.3
Ethanol	2.9	4.6	5.4	8.7
Acetone	2.9	8.1	6.8	19
2-Butanone (Methyl Ethyl Ketone)	0.72	0.73	2.1	2.2
1,2,4-Trimethylbenzene	0.14	0.15	0.71	0.75

Client Sample ID: Z6-2-IA-202410

Lab ID#: 2410344-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.45	0.36	2.2
Chloroform	0.029	0.11	0.14	0.56
Carbon Tetrachloride	0.029	0.076	0.18	0.48
Benzene	0.072	0.098	0.23	0.31
Trichloroethene	0.029	0.13	0.15	0.70
Toluene	0.072	3.4	0.27	13
Ethyl Benzene	0.029	0.71	0.12	3.1
m,p-Xylene	0.058	2.9	0.25	13
o-Xylene	0.029	0.86	0.12	3.7

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.15	0.24	0.82	1.3
Ethanol	2.9	4.8	5.5	9.0
Acetone	2.9	8.0	7.0	19
2-Butanone (Methyl Ethyl Ketone)	0.74	0.85	2.2	2.5
1,2,4-Trimethylbenzene	0.15	0.20	0.72	1.0

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02B

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.074	0.46	0.36	2.3
Chloroform	0.029	0.12	0.14	0.59
Carbon Tetrachloride	0.029	0.071	0.18	0.44
Benzene	0.074	0.097	0.23	0.31
Trichloroethene	0.029	0.13	0.16	0.69
Toluene	0.074	3.4	0.28	13
Ethyl Benzene	0.029	0.71	0.13	3.1
m,p-Xylene	0.059	2.9	0.26	13
o-Xylene	0.029	0.85	0.13	3.7

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.15	0.25	0.86	1.4
Ethanol	3.1	4.3	5.8	8.2
Acetone	3.1	8.9	7.3	21
2-Butanone (Methyl Ethyl Ketone)	0.77	1.1	2.3	3.2
1,2,4-Trimethylbenzene	0.15	0.17	0.76	0.84

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.077	0.45	0.38	2.2
Chloroform	0.031	0.13	0.15	0.66
Carbon Tetrachloride	0.031	0.074	0.19	0.47
Benzene	0.077	0.096	0.24	0.31
Trichloroethene	0.031	0.15	0.16	0.83
Toluene	0.077	3.8	0.29	14
Ethyl Benzene	0.031	0.82	0.13	3.6
m,p-Xylene	0.062	3.4	0.27	15
o-Xylene	0.031	0.97	0.13	4.2

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03B

Client Sample ID: Z5-OF-IA-202410

Lab ID#: 2410344-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.14	0.23	0.80	1.3
Ethanol	2.9	210 E	5.4	400 E
Acetone	2.9	20	6.8	47
2-Propanol	2.9	58	7.0	140
2-Butanone (Methyl Ethyl Ketone)	0.72	0.96	2.1	2.8
Heptane	0.72	0.75	2.9	3.1
Styrene	0.14	0.71	0.61	3.0
1,2,4-Trimethylbenzene	0.14	0.22	0.70	1.1

Client Sample ID: Z5-OF-IA-202410

Lab ID#: 2410344-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.44	0.35	2.2
Chloroform	0.029	0.14	0.14	0.70
Carbon Tetrachloride	0.029	0.11	0.18	0.71
Benzene	0.072	0.21	0.23	0.66
1,2-Dichloroethane	0.029	0.056	0.12	0.23
Trichloroethene	0.029	0.083	0.15	0.45
Toluene	0.072	2.4	0.27	8.9
Tetrachloroethene	0.029	0.029	0.19	0.20
Ethyl Benzene	0.029	1.4	0.12	6.0
m,p-Xylene	0.057	5.1	0.25	22
o-Xylene	0.029	1.5	0.12	6.3
1,4-Dichlorobenzene	0.029	0.11	0.17	0.65

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	0.18	0.31	0.41
Freon 11	0.14	0.22	0.78	1.3
Ethanol	2.8	34	5.2	64
Acetone	2.8	62 E	6.6	150 E
2-Propanol	2.8	28	6.8	70
Hexane	0.70	2.0	2.4	7.0
2-Butanone (Methyl Ethyl Ketone)	0.70	2.9	2.0	8.5
Cyclohexane	0.70	1.0	2.4	3.4
2,2,4-Trimethylpentane	0.70	2.8	3.2	13
Heptane	0.70	19	2.8	76
Styrene	0.14	0.87	0.59	3.7
Cumene	0.14	0.20	0.68	1.0
Propylbenzene	0.14	0.21	0.68	1.0
4-Ethyltoluene	0.14	0.75 CN	0.68	3.7 CN
1,3,5-Trimethylbenzene	0.14	0.27	0.68	1.3
1,2,4-Trimethylbenzene	0.14	1.0	0.68	4.9

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.070	0.40	0.34	2.0
Chloromethane	0.70	0.92	1.4	1.9
cis-1,2-Dichloroethene	0.028	0.057	0.11	0.23
Chloroform	0.028	0.10	0.14	0.51
Carbon Tetrachloride	0.028	0.069	0.17	0.43
Benzene	0.070	0.87	0.22	2.8
Trichloroethene	0.028	0.40	0.15	2.1
Toluene	0.070	17	0.26	63
Tetrachloroethene	0.028	0.10	0.19	0.69
Ethyl Benzene	0.028	5.1	0.12	22
m,p-Xylene	0.056	20	0.24	89
o-Xylene	0.028	6.0	0.12	26

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z5-1-IA-202410

Lab ID#: 2410344-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	0.18	0.30	0.39
Freon 11	0.14	0.22	0.78	1.2
Ethanol	2.8	27	5.2	51
Acetone	2.8	58 E	6.6	140 E
2-Propanol	2.8	28	6.8	68
Hexane	0.69	1.4	2.4	4.8
2-Butanone (Methyl Ethyl Ketone)	0.69	3.0	2.0	8.7
Cyclohexane	0.69	0.87	2.4	3.0
2,2,4-Trimethylpentane	0.69	1.7	3.2	7.9
Heptane	0.69	11	2.8	44
Styrene	0.14	0.72	0.59	3.1
Cumene	0.14	0.17	0.68	0.82
Propylbenzene	0.14	0.14 J	0.68	0.67 J
4-Ethyltoluene	0.14	0.22	0.68	1.1
1,3,5-Trimethylbenzene	0.14	0.17	0.68	0.86
1,2,4-Trimethylbenzene	0.14	0.69	0.68	3.4

Client Sample ID: Z5-1-IA-202410

Lab ID#: 2410344-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.069	0.38	0.34	1.9
Chloromethane	0.69	0.78	1.4	1.6
cis-1,2-Dichloroethene	0.028	0.057	0.11	0.22
Chloroform	0.028	0.11	0.13	0.54
Carbon Tetrachloride	0.028	0.069	0.17	0.43
Benzene	0.069	0.68	0.22	2.2
Trichloroethene	0.028	0.43	0.15	2.3
Toluene	0.069	13	0.26	49
Tetrachloroethene	0.028	0.093	0.19	0.63
Ethyl Benzene	0.028	5.1	0.12	22
m,p-Xylene	0.055	20	0.24	89
o-Xylene	0.028	5.9	0.12	26

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z3-1-IA-202410

Lab ID#: 2410344-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	9.2	17	17	32
Acetone	9.2	110	22	270
2-Butanone (Methyl Ethyl Ketone)	2.3	12	6.8	37
Heptane	2.3	10	9.4	43
Styrene	0.46	2.6	2.0	11
4-Ethyltoluene	0.46	1.3 CN	2.3	6.3 CN
1,3,5-Trimethylbenzene	0.46	0.50	2.3	2.4
1,2,4-Trimethylbenzene	0.46	1.3	2.3	6.5

Client Sample ID: Z3-1-IA-202410

Lab ID#: 2410344-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.23	0.40	1.1	2.0
Benzene	0.23	0.41	0.74	1.3
Trichloroethene	0.092	0.094	0.50	0.50
Toluene	0.23	47	0.87	180
Ethyl Benzene	0.092	22	0.40	94
m,p-Xylene	0.18	85	0.80	370
o-Xylene	0.092	25	0.40	110

Client Sample ID: Z4-IA-202410

Lab ID#: 2410344-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	8.9	20	17	37
Acetone	8.9	110	21	260
2-Butanone (Methyl Ethyl Ketone)	2.2	12	6.6	36
Heptane	2.2	11	9.1	44
Styrene	0.45	4.2	1.9	18
1,2,4-Trimethylbenzene	0.45	1.3	2.2	6.6

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z4-IA-202410

Lab ID#: 2410344-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.22	0.37	1.1	1.8
Benzene	0.22	0.40	0.71	1.3
Trichloroethene	0.089	0.11	0.48	0.61
Toluene	0.22	47	0.84	180
Ethyl Benzene	0.089	21	0.39	90
m,p-Xylene	0.18	79	0.77	340
o-Xylene	0.089	24	0.39	100

Client Sample ID: AA-1-202410

Lab ID#: 2410344-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.21	0.72	1.2
Ethanol	2.6	3.8	4.9	7.1
Acetone	2.6	3.4	6.1	8.2

Client Sample ID: AA-1-202410

Lab ID#: 2410344-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.064	0.38	0.32	1.9
Carbon Tetrachloride	0.026	0.064	0.16	0.40
Benzene	0.064	0.085	0.21	0.27
Toluene	0.064	0.14	0.24	0.53
m,p-Xylene	0.052	0.076	0.22	0.33
o-Xylene	0.026	0.031	0.11	0.14

Client Sample ID: Z3-2-IA-202410

Lab ID#: 2410344-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	38	38	71	71

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: Z3-2-IA-202410

Lab ID#: 2410344-10A

Acetone	30	690	72	1600
2-Butanone (Methyl Ethyl Ketone)	30	82	89	240
Tetrahydrofuran	7.6	8.0	22	24
Heptane	7.6	60	31	250
Toluene	7.6	270	28	1000
Ethyl Benzene	7.6	110	33	470
m,p-Xylene	7.6	430	33	1900
o-Xylene	7.6	130	33	560

Client Sample ID: Z4-2-IA-202410

Lab ID#: 2410344-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	31	580	73	1400
2-Butanone (Methyl Ethyl Ketone)	31	77	90	230
Heptane	7.6	54	31	220
Toluene	7.6	240	29	910
Ethyl Benzene	7.6	93	33	400
m,p-Xylene	7.6	360	33	1600
o-Xylene	7.6	110	33	460

Client Sample ID: Z2-1-IA-202410

Lab ID#: 2410344-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	35	55	66	100
Acetone	28	510	67	1200
2-Butanone (Methyl Ethyl Ketone)	28	65	83	190
Heptane	7.0	48	29	200
Toluene	7.0	210	26	790
Ethyl Benzene	7.0	83	31	360
m,p-Xylene	7.0	330	31	1400
o-Xylene	7.0	98	31	430

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Client Sample ID: Z6-2-IA-202410

Lab ID#: 2410344-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102329**	**Date of Collection: 10/8/24 3:40:00 PM**	
Dil. Factor:	**1.44**	**Date of Analysis: 10/24/24 05:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	Not Detected	0.32	Not Detected
Bromomethane	7.2	Not Detected	28	Not Detected
Freon 11	0.14	0.23	0.81	1.3
Ethanol	2.9	4.6	5.4	8.7
Freon 113	0.14	Not Detected	1.1	Not Detected
Acetone	2.9	8.1	6.8	19
2-Propanol	2.9	Not Detected	7.1	Not Detected
Carbon Disulfide	0.72	Not Detected	2.2	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Hexane	0.72	Not Detected	2.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.72	0.73	2.1	2.2
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
Cyclohexane	0.72	Not Detected	2.5	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.4	Not Detected
Heptane	0.72	Not Detected	3.0	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.72	Not Detected	2.6	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.59	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
2-Hexanone	0.72	Not Detected	2.9	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Styrene	0.14	Not Detected	0.61	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.71	Not Detected
Propylbenzene	0.14	Not Detected	0.71	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.71	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.71	Not Detected
1,2,4-Trimethylbenzene	0.14	0.15	0.71	0.75
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected
Hexachlorobutadiene	0.72	Not Detected	7.7	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130

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Client Sample ID: Z6-2-IA-202410

Lab ID#: 2410344-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102329**	**Date of Collection: 10/8/24 3:40:00 PM**	
Dil. Factor:	**1.44**	**Date of Analysis: 10/24/24 05:53 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Z6-2-IA-202410

Lab ID#: 2410344-01B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102329sim**	**Date of Collection: 10/8/24 3:40:00 PM**	
Dil. Factor:	**1.44**	**Date of Analysis: 10/24/24 05:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.45	0.36	2.2
Freon 114	0.029	Not Detected	0.20	Not Detected
Chloromethane	0.72	Not Detected	1.5	Not Detected
Vinyl Chloride	0.014	Not Detected	0.037	Not Detected
Chloroethane	0.072	Not Detected	0.19	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.057	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.11	Not Detected
Chloroform	0.029	0.11	0.14	0.56
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.076	0.18	0.48
Benzene	0.072	0.098	0.23	0.31
1,2-Dichloroethane	0.029	Not Detected	0.12	Not Detected
Trichloroethene	0.029	0.13	0.15	0.70
Toluene	0.072	3.4	0.27	13
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	Not Detected	0.20	Not Detected
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.029	0.71	0.12	3.1
m,p-Xylene	0.058	2.9	0.25	13
o-Xylene	0.029	0.86	0.12	3.7
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.029	Not Detected	0.17	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102330**	**Date of Collection: 10/8/24 3:27:00 PM**	
Dil. Factor:	**1.47**	**Date of Analysis: 10/24/24 06:25 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.15	Not Detected	0.32	Not Detected
Bromomethane	7.4	Not Detected	28	Not Detected
Freon 11	0.15	0.24	0.82	1.3
Ethanol	2.9	4.8	5.5	9.0
Freon 113	0.15	Not Detected	1.1	Not Detected
Acetone	2.9	8.0	7.0	19
2-Propanol	2.9	Not Detected	7.2	Not Detected
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	0.85	2.2	2.5
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
Cyclohexane	0.74	Not Detected	2.5	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.4	Not Detected
Heptane	0.74	Not Detected	3.0	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.68	Not Detected
1,4-Dioxane	0.74	Not Detected	2.6	Not Detected
Bromodichloromethane	0.15	Not Detected	0.98	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.60	Not Detected
trans-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected
2-Hexanone	0.74	Not Detected	3.0	Not Detected
Dibromochloromethane	0.15	Not Detected	1.2	Not Detected
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	Not Detected	0.72	Not Detected
Propylbenzene	0.15	Not Detected	0.72	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.72	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.72	Not Detected
1,2,4-Trimethylbenzene	0.15	0.20	0.72	1.0
1,3-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.76	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.4	Not Detected
Hexachlorobutadiene	0.74	Not Detected	7.8	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130

eurofins | Air Toxics

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102330**	**Date of Collection: 10/8/24 3:27:00 PM**	
Dil. Factor:	**1.47**	**Date of Analysis: 10/24/24 06:25 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130
4-Bromofluorobenzene	99	70-130

eurofins | Air Toxics

Client Sample ID: DUP-IA-202410

Lab ID#: 2410344-02B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102330sim**	**Date of Collection: 10/8/24 3:27:00 PM**	
Dil. Factor:	**1.47**	**Date of Analysis: 10/24/24 06:25 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.074	0.46	0.36	2.3
Freon 114	0.029	Not Detected	0.20	Not Detected
Chloromethane	0.74	Not Detected	1.5	Not Detected
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Chloroethane	0.074	Not Detected	0.19	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.058	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.12	Not Detected
Chloroform	0.029	0.12	0.14	0.59
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.071	0.18	0.44
Benzene	0.074	0.097	0.23	0.31
1,2-Dichloroethane	0.029	Not Detected	0.12	Not Detected
Trichloroethene	0.029	0.13	0.16	0.69
Toluene	0.074	3.4	0.28	13
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	Not Detected	0.20	Not Detected
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.029	0.71	0.13	3.1
m,p-Xylene	0.059	2.9	0.26	13
o-Xylene	0.029	0.85	0.13	3.7
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.029	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102331**	**Date of Collection: 10/8/24 3:00:00 PM**	
Dil. Factor:	**1.54**	**Date of Analysis: 10/24/24 06:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.15	Not Detected	0.34	Not Detected
Bromomethane	7.7	Not Detected	30	Not Detected
Freon 11	0.15	0.25	0.86	1.4
Ethanol	3.1	4.3	5.8	8.2
Freon 113	0.15	Not Detected	1.2	Not Detected
Acetone	3.1	8.9	7.3	21
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	0.77	Not Detected	2.4	Not Detected
3-Chloropropene	0.77	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.77	Not Detected	2.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.77	1.1	2.3	3.2
Tetrahydrofuran	0.77	Not Detected	2.3	Not Detected
Cyclohexane	0.77	Not Detected	2.6	Not Detected
2,2,4-Trimethylpentane	0.77	Not Detected	3.6	Not Detected
Heptane	0.77	Not Detected	3.2	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.71	Not Detected
1,4-Dioxane	0.77	Not Detected	2.8	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.70	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.15	Not Detected	0.70	Not Detected
2-Hexanone	0.77	Not Detected	3.2	Not Detected
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
Chlorobenzene	0.15	Not Detected	0.71	Not Detected
Styrene	0.15	Not Detected	0.66	Not Detected
Bromoform	0.15	Not Detected	1.6	Not Detected
Cumene	0.15	Not Detected	0.76	Not Detected
Propylbenzene	0.15	Not Detected	0.76	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.76	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.76	Not Detected
1,2,4-Trimethylbenzene	0.15	0.17	0.76	0.84
1,3-Dichlorobenzene	0.15	Not Detected	0.92	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.80	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.92	Not Detected
1,2,4-Trichlorobenzene	0.77	Not Detected	5.7	Not Detected
Hexachlorobutadiene	0.77	Not Detected	8.2	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130

eurofins | Air Toxics

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102331**	**Date of Collection: 10/8/24 3:00:00 PM**	
Dil. Factor:	**1.54**	**Date of Analysis: 10/24/24 06:57 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
4-Bromofluorobenzene	93	70-130

eurofins | Air Toxics

Client Sample ID: Z5-2-IA-202410

Lab ID#: 2410344-03B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102331sim**	**Date of Collection: 10/8/24 3:00:00 PM**	
Dil. Factor:	**1.54**	**Date of Analysis: 10/24/24 06:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.077	0.45	0.38	2.2
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.77	Not Detected	1.6	Not Detected
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
Chloroethane	0.077	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.061	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	0.13	0.15	0.66
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.074	0.19	0.47
Benzene	0.077	0.096	0.24	0.31
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	0.15	0.16	0.83
Toluene	0.077	3.8	0.29	14
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.82	0.13	3.6
m,p-Xylene	0.062	3.4	0.27	15
o-Xylene	0.031	0.97	0.13	4.2
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Z5-OF-IA-202410

Lab ID#: 2410344-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102332**	**Date of Collection: 10/8/24 3:37:00 PM**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/24/24 07:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	Not Detected	0.32	Not Detected
Bromomethane	7.2	Not Detected	28	Not Detected
Freon 11	0.14	0.23	0.80	1.3
Ethanol	2.9	210 E	5.4	400 E
Freon 113	0.14	Not Detected	1.1	Not Detected
Acetone	2.9	20	6.8	47
2-Propanol	2.9	58	7.0	140
Carbon Disulfide	0.72	Not Detected	2.2	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.29	Not Detected	0.99	Not Detected
Hexane	0.72	Not Detected	2.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.72	0.96	2.1	2.8
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
Cyclohexane	0.72	Not Detected	2.5	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.3	Not Detected
Heptane	0.72	0.75	2.9	3.1
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.72	Not Detected	2.6	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.58	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
2-Hexanone	0.72	Not Detected	2.9	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Styrene	0.14	0.71	0.61	3.0
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.70	Not Detected
Propylbenzene	0.14	Not Detected	0.70	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.70	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.70	Not Detected
1,2,4-Trimethylbenzene	0.14	0.22	0.70	1.1
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected
Hexachlorobutadiene	0.72	Not Detected	7.6	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

eurofins | Air Toxics

Client Sample ID: Z5-OF-IA-202410

Lab ID#: 2410344-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102332**	**Date of Collection: 10/8/24 3:37:00 PM**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/24/24 07:29 AM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: Z5-OF-IA-202410

Lab ID#: 2410344-04B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102332sim**	**Date of Collection: 10/8/24 3:37:00 PM**	
Dil. Factor:	**1.43**	**Date of Analysis: 10/24/24 07:29 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.44	0.35	2.2
Freon 114	0.029	Not Detected	0.20	Not Detected
Chloromethane	0.72	Not Detected	1.5	Not Detected
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
Chloroethane	0.072	Not Detected	0.19	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.057	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.11	Not Detected
Chloroform	0.029	0.14	0.14	0.70
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.11	0.18	0.71
Benzene	0.072	0.21	0.23	0.66
1,2-Dichloroethane	0.029	0.056	0.12	0.23
Trichloroethene	0.029	0.083	0.15	0.45
Toluene	0.072	2.4	0.27	8.9
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	0.029	0.19	0.20
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.029	1.4	0.12	6.0
m,p-Xylene	0.057	5.1	0.25	22
o-Xylene	0.029	1.5	0.12	6.3
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.029	0.11	0.17	0.65

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102508**	**Date of Collection: 10/8/24 4:08:00 PM**	
Dil. Factor:	**1.39**	**Date of Analysis: 10/25/24 06:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	0.18	0.31	0.41
Bromomethane	7.0	Not Detected	27	Not Detected
Freon 11	0.14	0.22	0.78	1.3
Ethanol	2.8	34	5.2	64
Freon 113	0.14	Not Detected	1.1	Not Detected
Acetone	2.8	62 E	6.6	150 E
2-Propanol	2.8	28	6.8	70
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
3-Chloropropene	0.70	Not Detected	2.2	Not Detected
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Hexane	0.70	2.0	2.4	7.0
2-Butanone (Methyl Ethyl Ketone)	0.70	2.9	2.0	8.5
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
Cyclohexane	0.70	1.0	2.4	3.4
2,2,4-Trimethylpentane	0.70	2.8	3.2	13
Heptane	0.70	19	2.8	76
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.70	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.93	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.57	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
2-Hexanone	0.70	Not Detected	2.8	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Styrene	0.14	0.87	0.59	3.7
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	0.20	0.68	1.0
Propylbenzene	0.14	0.21	0.68	1.0
4-Ethyltoluene	0.14	0.75 CN	0.68	3.7 CN
1,3,5-Trimethylbenzene	0.14	0.27	0.68	1.3
1,2,4-Trimethylbenzene	0.14	1.0	0.68	4.9
1,3-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.72	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.84	Not Detected
1,2,4-Trichlorobenzene	0.70	Not Detected	5.2	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.4	Not Detected

E = Exceeds instrument calibration range.
CN =See Case Narrative explanation
Container Type: 6 Liter Summa Canister (100% SIM Ambient)

eurofins | Air Toxics

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102508**	**Date of Collection: 10/8/24 4:08:00 PM**	
Dil. Factor:	**1.39**	**Date of Analysis: 10/25/24 06:40 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: Z6-1-IA-202410

Lab ID#: 2410344-05B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102508sim**	**Date of Collection: 10/8/24 4:08:00 PM**	
Dil. Factor:	**1.39**	**Date of Analysis: 10/25/24 06:40 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.070	0.40	0.34	2.0
Freon 114	0.028	Not Detected	0.19	Not Detected
Chloromethane	0.70	0.92	1.4	1.9
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
Chloroethane	0.070	Not Detected	0.18	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.055	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	0.057	0.11	0.23
Chloroform	0.028	0.10	0.14	0.51
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.028	0.069	0.17	0.43
Benzene	0.070	0.87	0.22	2.8
1,2-Dichloroethane	0.028	Not Detected	0.11	Not Detected
Trichloroethene	0.028	0.40	0.15	2.1
Toluene	0.070	17	0.26	63
1,1,2-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Tetrachloroethene	0.028	0.10	0.19	0.69
1,2-Dibromoethane (EDB)	0.028	Not Detected	0.21	Not Detected
Ethyl Benzene	0.028	5.1	0.12	22
m,p-Xylene	0.056	20	0.24	89
o-Xylene	0.028	6.0	0.12	26
1,1,2,2-Tetrachloroethane	0.028	Not Detected	0.19	Not Detected
1,4-Dichlorobenzene	0.028	Not Detected	0.17	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Z5-1-IA-202410

Lab ID#: 2410344-06A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102509**	**Date of Collection: 10/8/24 4:05:00 PM**	
Dil. Factor:	**1.38**	**Date of Analysis: 10/25/24 07:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	0.18	0.30	0.39
Bromomethane	6.9	Not Detected	27	Not Detected
Freon 11	0.14	0.22	0.78	1.2
Ethanol	2.8	27	5.2	51
Freon 113	0.14	Not Detected	1.0	Not Detected
Acetone	2.8	58 E	6.6	140 E
2-Propanol	2.8	28	6.8	68
Carbon Disulfide	0.69	Not Detected	2.1	Not Detected
3-Chloropropene	0.69	Not Detected	2.2	Not Detected
Methylene Chloride	0.28	Not Detected	0.96	Not Detected
Hexane	0.69	1.4	2.4	4.8
2-Butanone (Methyl Ethyl Ketone)	0.69	3.0	2.0	8.7
Tetrahydrofuran	0.69	Not Detected	2.0	Not Detected
Cyclohexane	0.69	0.87	2.4	3.0
2,2,4-Trimethylpentane	0.69	1.7	3.2	7.9
Heptane	0.69	11	2.8	44
1,2-Dichloropropane	0.14	Not Detected	0.64	Not Detected
1,4-Dioxane	0.69	Not Detected	2.5	Not Detected
Bromodichloromethane	0.14	Not Detected	0.92	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.56	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.63	Not Detected
2-Hexanone	0.69	Not Detected	2.8	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
Chlorobenzene	0.14	Not Detected	0.64	Not Detected
Styrene	0.14	0.72	0.59	3.1
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	0.17	0.68	0.82
Propylbenzene	0.14	0.14 J	0.68	0.67 J
4-Ethyltoluene	0.14	0.22	0.68	1.1
1,3,5-Trimethylbenzene	0.14	0.17	0.68	0.86
1,2,4-Trimethylbenzene	0.14	0.69	0.68	3.4
1,3-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.71	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.83	Not Detected
1,2,4-Trichlorobenzene	0.69	Not Detected	5.1	Not Detected
Hexachlorobutadiene	0.69	Not Detected	7.4	Not Detected

E = Exceeds instrument calibration range.
J = Estimated value.
Container Type: 6 Liter Summa Canister (100% SIM Ambient)

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Client Sample ID: Z5-1-IA-202410

Lab ID#: 2410344-06A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102509**	**Date of Collection: 10/8/24 4:05:00 PM**	
Dil. Factor:	**1.38**	**Date of Analysis: 10/25/24 07:35 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Z5-1-IA-202410

Lab ID#: 2410344-06B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102509sim**	**Date of Collection: 10/8/24 4:05:00 PM**	
Dil. Factor:	**1.38**	**Date of Analysis: 10/25/24 07:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.069	0.38	0.34	1.9
Freon 114	0.028	Not Detected	0.19	Not Detected
Chloromethane	0.69	0.78	1.4	1.6
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
Chloroethane	0.069	Not Detected	0.18	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.055	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	0.057	0.11	0.22
Chloroform	0.028	0.11	0.13	0.54
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.028	0.069	0.17	0.43
Benzene	0.069	0.68	0.22	2.2
1,2-Dichloroethane	0.028	Not Detected	0.11	Not Detected
Trichloroethene	0.028	0.43	0.15	2.3
Toluene	0.069	13	0.26	49
1,1,2-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Tetrachloroethene	0.028	0.093	0.19	0.63
1,2-Dibromoethane (EDB)	0.028	Not Detected	0.21	Not Detected
Ethyl Benzene	0.028	5.1	0.12	22
m,p-Xylene	0.055	20	0.24	89
o-Xylene	0.028	5.9	0.12	26
1,1,2,2-Tetrachloroethane	0.028	Not Detected	0.19	Not Detected
1,4-Dichlorobenzene	0.028	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Z3-1-IA-202410

Lab ID#: 2410344-07A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102510**	**Date of Collection: 10/8/24 4:50:00 PM**	
Dil. Factor:	**4.61**	**Date of Analysis: 10/25/24 08:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.46	Not Detected	1.0	Not Detected
Bromomethane	23	Not Detected	90	Not Detected
Freon 11	0.46	Not Detected	2.6	Not Detected
Ethanol	9.2	17	17	32
Freon 113	0.46	Not Detected	3.5	Not Detected
Acetone	9.2	110	22	270
2-Propanol	9.2	Not Detected	23	Not Detected
Carbon Disulfide	2.3	Not Detected	7.2	Not Detected
3-Chloropropene	2.3	Not Detected	7.2	Not Detected
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
Hexane	2.3	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.3	12	6.8	37
Tetrahydrofuran	2.3	Not Detected	6.8	Not Detected
Cyclohexane	2.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	2.3	Not Detected	11	Not Detected
Heptane	2.3	10	9.4	43
1,2-Dichloropropane	0.46	Not Detected	2.1	Not Detected
1,4-Dioxane	2.3	Not Detected	8.3	Not Detected
Bromodichloromethane	0.46	Not Detected	3.1	Not Detected
cis-1,3-Dichloropropene	0.46	Not Detected	2.1	Not Detected
4-Methyl-2-pentanone	0.46	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.46	Not Detected	2.1	Not Detected
2-Hexanone	2.3	Not Detected	9.4	Not Detected
Dibromochloromethane	0.46	Not Detected	3.9	Not Detected
Chlorobenzene	0.46	Not Detected	2.1	Not Detected
Styrene	0.46	2.6	2.0	11
Bromoform	0.46	Not Detected	4.8	Not Detected
Cumene	0.46	Not Detected	2.3	Not Detected
Propylbenzene	0.46	Not Detected	2.3	Not Detected
4-Ethyltoluene	0.46	1.3 CN	2.3	6.3 CN
1,3,5-Trimethylbenzene	0.46	0.50	2.3	2.4
1,2,4-Trimethylbenzene	0.46	1.3	2.3	6.5
1,3-Dichlorobenzene	0.46	Not Detected	2.8	Not Detected
alpha-Chlorotoluene	0.46	Not Detected	2.4	Not Detected
1,2-Dichlorobenzene	0.46	Not Detected	2.8	Not Detected
1,2,4-Trichlorobenzene	2.3	Not Detected	17	Not Detected
Hexachlorobutadiene	2.3	Not Detected	24	Not Detected

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: Z3-1-IA-202410

Lab ID#: 2410344-07A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102510**	**Date of Collection: 10/8/24 4:50:00 PM**	
Dil. Factor:	**4.61**	**Date of Analysis: 10/25/24 08:27 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Z3-1-IA-202410

Lab ID#: 2410344-07B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102510sim**	**Date of Collection: 10/8/24 4:50:00 PM**	
Dil. Factor:	**4.61**	**Date of Analysis: 10/25/24 08:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.23	0.40	1.1	2.0
Freon 114	0.092	Not Detected	0.64	Not Detected
Chloromethane	2.3	Not Detected	4.8	Not Detected
Vinyl Chloride	0.046	Not Detected	0.12	Not Detected
Chloroethane	0.23	Not Detected	0.61	Not Detected
1,1-Dichloroethene	0.046	Not Detected	0.18	Not Detected
trans-1,2-Dichloroethene	0.46	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.46	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.092	Not Detected	0.37	Not Detected
cis-1,2-Dichloroethene	0.092	Not Detected	0.36	Not Detected
Chloroform	0.092	Not Detected	0.45	Not Detected
1,1,1-Trichloroethane	0.092	Not Detected	0.50	Not Detected
Carbon Tetrachloride	0.092	Not Detected	0.58	Not Detected
Benzene	0.23	0.41	0.74	1.3
1,2-Dichloroethane	0.092	Not Detected	0.37	Not Detected
Trichloroethene	0.092	0.094	0.50	0.50
Toluene	0.23	47	0.87	180
1,1,2-Trichloroethane	0.092	Not Detected	0.50	Not Detected
Tetrachloroethene	0.092	Not Detected	0.62	Not Detected
1,2-Dibromoethane (EDB)	0.092	Not Detected	0.71	Not Detected
Ethyl Benzene	0.092	22	0.40	94
m,p-Xylene	0.18	85	0.80	370
o-Xylene	0.092	25	0.40	110
1,1,2,2-Tetrachloroethane	0.092	Not Detected	0.63	Not Detected
1,4-Dichlorobenzene	0.092	Not Detected	0.55	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Z4-IA-202410

Lab ID#: 2410344-08A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102511**	**Date of Collection: 10/8/24 4:53:00 PM**	
Dil. Factor:	**4.46**	**Date of Analysis: 10/25/24 10:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.45	Not Detected	0.99	Not Detected
Bromomethane	22	Not Detected	87	Not Detected
Freon 11	0.45	Not Detected	2.5	Not Detected
Ethanol	8.9	20	17	37
Freon 113	0.45	Not Detected	3.4	Not Detected
Acetone	8.9	110	21	260
2-Propanol	8.9	Not Detected	22	Not Detected
Carbon Disulfide	2.2	Not Detected	6.9	Not Detected
3-Chloropropene	2.2	Not Detected	7.0	Not Detected
Methylene Chloride	0.89	Not Detected	3.1	Not Detected
Hexane	2.2	Not Detected	7.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.2	12	6.6	36
Tetrahydrofuran	2.2	Not Detected	6.6	Not Detected
Cyclohexane	2.2	Not Detected	7.7	Not Detected
2,2,4-Trimethylpentane	2.2	Not Detected	10	Not Detected
Heptane	2.2	11	9.1	44
1,2-Dichloropropane	0.45	Not Detected	2.1	Not Detected
1,4-Dioxane	2.2	Not Detected	8.0	Not Detected
Bromodichloromethane	0.45	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.45	Not Detected	2.0	Not Detected
4-Methyl-2-pentanone	0.45	Not Detected	1.8	Not Detected
trans-1,3-Dichloropropene	0.45	Not Detected	2.0	Not Detected
2-Hexanone	2.2	Not Detected	9.1	Not Detected
Dibromochloromethane	0.45	Not Detected	3.8	Not Detected
Chlorobenzene	0.45	Not Detected	2.0	Not Detected
Styrene	0.45	4.2	1.9	18
Bromoform	0.45	Not Detected	4.6	Not Detected
Cumene	0.45	Not Detected	2.2	Not Detected
Propylbenzene	0.45	Not Detected	2.2	Not Detected
4-Ethyltoluene	0.45	Not Detected	2.2	Not Detected
1,3,5-Trimethylbenzene	0.45	Not Detected	2.2	Not Detected
1,2,4-Trimethylbenzene	0.45	1.3	2.2	6.6
1,3-Dichlorobenzene	0.45	Not Detected	2.7	Not Detected
alpha-Chlorotoluene	0.45	Not Detected	2.3	Not Detected
1,2-Dichlorobenzene	0.45	Not Detected	2.7	Not Detected
1,2,4-Trichlorobenzene	2.2	Not Detected	16	Not Detected
Hexachlorobutadiene	2.2	Not Detected	24	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130

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Client Sample ID: Z4-IA-202410

Lab ID#: 2410344-08A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102511**	**Date of Collection: 10/8/24 4:53:00 PM**	
Dil. Factor:	**4.46**	**Date of Analysis: 10/25/24 10:18 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	102	70-130

eurofins | Air Toxics

Client Sample ID: Z4-IA-202410

Lab ID#: 2410344-08B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102511sim**	**Date of Collection: 10/8/24 4:53:00 PM**	
Dil. Factor:	**4.46**	**Date of Analysis: 10/25/24 10:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.22	0.37	1.1	1.8
Freon 114	0.089	Not Detected	0.62	Not Detected
Chloromethane	2.2	Not Detected	4.6	Not Detected
Vinyl Chloride	0.045	Not Detected	0.11	Not Detected
Chloroethane	0.22	Not Detected	0.59	Not Detected
1,1-Dichloroethene	0.045	Not Detected	0.18	Not Detected
trans-1,2-Dichloroethene	0.45	Not Detected	1.8	Not Detected
Methyl tert-butyl ether	0.45	Not Detected	1.6	Not Detected
1,1-Dichloroethane	0.089	Not Detected	0.36	Not Detected
cis-1,2-Dichloroethene	0.089	Not Detected	0.35	Not Detected
Chloroform	0.089	Not Detected	0.44	Not Detected
1,1,1-Trichloroethane	0.089	Not Detected	0.49	Not Detected
Carbon Tetrachloride	0.089	Not Detected	0.56	Not Detected
Benzene	0.22	0.40	0.71	1.3
1,2-Dichloroethane	0.089	Not Detected	0.36	Not Detected
Trichloroethene	0.089	0.11	0.48	0.61
Toluene	0.22	47	0.84	180
1,1,2-Trichloroethane	0.089	Not Detected	0.49	Not Detected
Tetrachloroethene	0.089	Not Detected	0.60	Not Detected
1,2-Dibromoethane (EDB)	0.089	Not Detected	0.68	Not Detected
Ethyl Benzene	0.089	21	0.39	90
m,p-Xylene	0.18	79	0.77	340
o-Xylene	0.089	24	0.39	100
1,1,2,2-Tetrachloroethane	0.089	Not Detected	0.61	Not Detected
1,4-Dichlorobenzene	0.089	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: AA-1-202410

Lab ID#: 2410344-09A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102512**	**Date of Collection: 10/8/24 5:22:00 PM**	
Dil. Factor:	**1.29**	**Date of Analysis: 10/25/24 11:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	6.4	Not Detected	25	Not Detected
Freon 11	0.13	0.21	0.72	1.2
Ethanol	2.6	3.8	4.9	7.1
Freon 113	0.13	Not Detected	0.99	Not Detected
Acetone	2.6	3.4	6.1	8.2
2-Propanol	2.6	Not Detected	6.3	Not Detected
Carbon Disulfide	0.64	Not Detected	2.0	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.26	Not Detected	0.90	Not Detected
Hexane	0.64	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.64	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Cyclohexane	0.64	Not Detected	2.2	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Heptane	0.64	Not Detected	2.6	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.60	Not Detected
1,4-Dioxane	0.64	Not Detected	2.3	Not Detected
Bromodichloromethane	0.13	Not Detected	0.86	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.53	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
2-Hexanone	0.64	Not Detected	2.6	Not Detected
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
Chlorobenzene	0.13	Not Detected	0.59	Not Detected
Styrene	0.13	Not Detected	0.55	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	Not Detected	0.63	Not Detected
Propylbenzene	0.13	Not Detected	0.63	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.63	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,2,4-Trimethylbenzene	0.13	Not Detected	0.63	Not Detected
1,3-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.67	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.8	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.9	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130

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Client Sample ID: AA-1-202410

Lab ID#: 2410344-09A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102512**	**Date of Collection: 10/8/24 5:22:00 PM**	
Dil. Factor:	**1.29**	**Date of Analysis: 10/25/24 11:14 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: AA-1-202410

Lab ID#: 2410344-09B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102512sim**	**Date of Collection: 10/8/24 5:22:00 PM**	
Dil. Factor:	**1.29**	**Date of Analysis: 10/25/24 11:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.064	0.38	0.32	1.9
Freon 114	0.026	Not Detected	0.18	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
Vinyl Chloride	0.013	Not Detected	0.033	Not Detected
Chloroethane	0.064	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.051	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected
1,1-Dichloroethane	0.026	Not Detected	0.10	Not Detected
cis-1,2-Dichloroethene	0.026	Not Detected	0.10	Not Detected
Chloroform	0.026	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.026	0.064	0.16	0.40
Benzene	0.064	0.085	0.21	0.27
1,2-Dichloroethane	0.026	Not Detected	0.10	Not Detected
Trichloroethene	0.026	Not Detected	0.14	Not Detected
Toluene	0.064	0.14	0.24	0.53
1,1,2-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Tetrachloroethene	0.026	Not Detected	0.18	Not Detected
1,2-Dibromoethane (EDB)	0.026	Not Detected	0.20	Not Detected
Ethyl Benzene	0.026	Not Detected	0.11	Not Detected
m,p-Xylene	0.052	0.076	0.22	0.33
o-Xylene	0.026	0.031	0.11	0.14
1,1,2,2-Tetrachloroethane	0.026	Not Detected	0.18	Not Detected
1,4-Dichlorobenzene	0.026	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: Z3-2-IA-202410

Lab ID#: 2410344-10A

EPA METHOD TO-15 GC/MS

File Name:	**14102447**	**Date of Collection: 10/8/24 5:29:00 PM**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/25/24 02:13 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.6	Not Detected	37	Not Detected
Freon 114	7.6	Not Detected	53	Not Detected
Chloromethane	30	Not Detected	62	Not Detected
Vinyl Chloride	7.6	Not Detected	19	Not Detected
1,3-Butadiene	7.6	Not Detected	17	Not Detected
Bromomethane	30	Not Detected	120	Not Detected
Chloroethane	30	Not Detected	80	Not Detected
Freon 11	7.6	Not Detected	42	Not Detected
Ethanol	38	38	71	71
Freon 113	7.6	Not Detected	58	Not Detected
1,1-Dichloroethene	7.6	Not Detected	30	Not Detected
Acetone	30	690	72	1600
2-Propanol	38	Not Detected	93	Not Detected
Carbon Disulfide	30	Not Detected	94	Not Detected
3-Chloropropene	30	Not Detected	94	Not Detected
Methylene Chloride	30	Not Detected	100	Not Detected
Methyl tert-butyl ether	7.6	Not Detected	27	Not Detected
trans-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Hexane	7.6	Not Detected	27	Not Detected
1,1-Dichloroethane	7.6	Not Detected	30	Not Detected
2-Butanone (Methyl Ethyl Ketone)	30	82	89	240
cis-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Tetrahydrofuran	7.6	8.0	22	24
Chloroform	7.6	Not Detected	37	Not Detected
1,1,1-Trichloroethane	7.6	Not Detected	41	Not Detected
Cyclohexane	7.6	Not Detected	26	Not Detected
Carbon Tetrachloride	7.6	Not Detected	48	Not Detected
2,2,4-Trimethylpentane	7.6	Not Detected	35	Not Detected
Benzene	7.6	Not Detected	24	Not Detected
1,2-Dichloroethane	7.6	Not Detected	30	Not Detected
Heptane	7.6	60	31	250
Trichloroethene	7.6	Not Detected	40	Not Detected
1,2-Dichloropropane	7.6	Not Detected	35	Not Detected
1,4-Dioxane	30	Not Detected	110	Not Detected
Bromodichloromethane	7.6	Not Detected	50	Not Detected
cis-1,3-Dichloropropene	7.6	Not Detected	34	Not Detected
4-Methyl-2-pentanone	30	Not Detected	120	Not Detected
Toluene	7.6	270	28	1000
trans-1,3-Dichloropropene	7.6	Not Detected	34	Not Detected
1,1,2-Trichloroethane	7.6	Not Detected	41	Not Detected
Tetrachloroethene	7.6	Not Detected	51	Not Detected
2-Hexanone	30	Not Detected	120	Not Detected

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Client Sample ID: Z3-2-IA-202410

Lab ID#: 2410344-10A

EPA METHOD TO-15 GC/MS

File Name:	**14102447**	**Date of Collection: 10/8/24 5:29:00 PM**	
Dil. Factor:	**1.51**	**Date of Analysis: 10/25/24 02:13 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.6	Not Detected	64	Not Detected
1,2-Dibromoethane (EDB)	7.6	Not Detected	58	Not Detected
Chlorobenzene	7.6	Not Detected	35	Not Detected
Ethyl Benzene	7.6	110	33	470
m,p-Xylene	7.6	430	33	1900
o-Xylene	7.6	130	33	560
Styrene	7.6	Not Detected	32	Not Detected
Bromoform	7.6	Not Detected	78	Not Detected
Cumene	7.6	Not Detected	37	Not Detected
1,1,2,2-Tetrachloroethane	7.6	Not Detected	52	Not Detected
Propylbenzene	7.6	Not Detected	37	Not Detected
4-Ethyltoluene	7.6	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	7.6	Not Detected	37	Not Detected
1,2,4-Trimethylbenzene	7.6	Not Detected	37	Not Detected
1,3-Dichlorobenzene	7.6	Not Detected	45	Not Detected
1,4-Dichlorobenzene	7.6	Not Detected	45	Not Detected
alpha-Chlorotoluene	7.6	Not Detected	39	Not Detected
1,2-Dichlorobenzene	7.6	Not Detected	45	Not Detected
1,2,4-Trichlorobenzene	30	Not Detected	220	Not Detected
Hexachlorobutadiene	30	Not Detected	320	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Z4-2-IA-202410

Lab ID#: 2410344-11A

EPA METHOD TO-15 GC/MS

File Name:	**14102448**	**Date of Collection:**	**10/8/24 5:32:00 PM**
Dil. Factor:	**1.53**	**Date of Analysis:**	**10/25/24 02:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.6	Not Detected	38	Not Detected
Freon 114	7.6	Not Detected	53	Not Detected
Chloromethane	31	Not Detected	63	Not Detected
Vinyl Chloride	7.6	Not Detected	20	Not Detected
1,3-Butadiene	7.6	Not Detected	17	Not Detected
Bromomethane	31	Not Detected	120	Not Detected
Chloroethane	31	Not Detected	81	Not Detected
Freon 11	7.6	Not Detected	43	Not Detected
Ethanol	38	Not Detected	72	Not Detected
Freon 113	7.6	Not Detected	59	Not Detected
1,1-Dichloroethene	7.6	Not Detected	30	Not Detected
Acetone	31	580	73	1400
2-Propanol	38	Not Detected	94	Not Detected
Carbon Disulfide	31	Not Detected	95	Not Detected
3-Chloropropene	31	Not Detected	96	Not Detected
Methylene Chloride	31	Not Detected	110	Not Detected
Methyl tert-butyl ether	7.6	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Hexane	7.6	Not Detected	27	Not Detected
1,1-Dichloroethane	7.6	Not Detected	31	Not Detected
2-Butanone (Methyl Ethyl Ketone)	31	77	90	230
cis-1,2-Dichloroethene	7.6	Not Detected	30	Not Detected
Tetrahydrofuran	7.6	Not Detected	22	Not Detected
Chloroform	7.6	Not Detected	37	Not Detected
1,1,1-Trichloroethane	7.6	Not Detected	42	Not Detected
Cyclohexane	7.6	Not Detected	26	Not Detected
Carbon Tetrachloride	7.6	Not Detected	48	Not Detected
2,2,4-Trimethylpentane	7.6	Not Detected	36	Not Detected
Benzene	7.6	Not Detected	24	Not Detected
1,2-Dichloroethane	7.6	Not Detected	31	Not Detected
Heptane	7.6	54	31	220
Trichloroethene	7.6	Not Detected	41	Not Detected
1,2-Dichloropropane	7.6	Not Detected	35	Not Detected
1,4-Dioxane	31	Not Detected	110	Not Detected
Bromodichloromethane	7.6	Not Detected	51	Not Detected
cis-1,3-Dichloropropene	7.6	Not Detected	35	Not Detected
4-Methyl-2-pentanone	31	Not Detected	120	Not Detected
Toluene	7.6	240	29	910
trans-1,3-Dichloropropene	7.6	Not Detected	35	Not Detected
1,1,2-Trichloroethane	7.6	Not Detected	42	Not Detected
Tetrachloroethene	7.6	Not Detected	52	Not Detected
2-Hexanone	31	Not Detected	120	Not Detected

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Client Sample ID: Z4-2-IA-202410

Lab ID#: 2410344-11A

EPA METHOD TO-15 GC/MS

File Name:	**14102448**	**Date of Collection: 10/8/24 5:32:00 PM**	
Dil. Factor:	**1.53**	**Date of Analysis: 10/25/24 02:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.6	Not Detected	65	Not Detected
1,2-Dibromoethane (EDB)	7.6	Not Detected	59	Not Detected
Chlorobenzene	7.6	Not Detected	35	Not Detected
Ethyl Benzene	7.6	93	33	400
m,p-Xylene	7.6	360	33	1600
o-Xylene	7.6	110	33	460
Styrene	7.6	Not Detected	32	Not Detected
Bromoform	7.6	Not Detected	79	Not Detected
Cumene	7.6	Not Detected	38	Not Detected
1,1,2,2-Tetrachloroethane	7.6	Not Detected	52	Not Detected
Propylbenzene	7.6	Not Detected	38	Not Detected
4-Ethyltoluene	7.6	Not Detected	38	Not Detected
1,3,5-Trimethylbenzene	7.6	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	7.6	Not Detected	38	Not Detected
1,3-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,4-Dichlorobenzene	7.6	Not Detected	46	Not Detected
alpha-Chlorotoluene	7.6	Not Detected	40	Not Detected
1,2-Dichlorobenzene	7.6	Not Detected	46	Not Detected
1,2,4-Trichlorobenzene	31	Not Detected	230	Not Detected
Hexachlorobutadiene	31	Not Detected	330	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Z2-1-IA-202410

Lab ID#: 2410344-12A

EPA METHOD TO-15 GC/MS

File Name:	**14102449**	**Date of Collection: 10/8/24 5:34:00 PM**	
Dil. Factor:	**1.41**	**Date of Analysis: 10/25/24 03:00 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.0	Not Detected	35	Not Detected
Freon 114	7.0	Not Detected	49	Not Detected
Chloromethane	28	Not Detected	58	Not Detected
Vinyl Chloride	7.0	Not Detected	18	Not Detected
1,3-Butadiene	7.0	Not Detected	16	Not Detected
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	28	Not Detected	74	Not Detected
Freon 11	7.0	Not Detected	40	Not Detected
Ethanol	35	55	66	100
Freon 113	7.0	Not Detected	54	Not Detected
1,1-Dichloroethene	7.0	Not Detected	28	Not Detected
Acetone	28	510	67	1200
2-Propanol	35	Not Detected	87	Not Detected
Carbon Disulfide	28	Not Detected	88	Not Detected
3-Chloropropene	28	Not Detected	88	Not Detected
Methylene Chloride	28	Not Detected	98	Not Detected
Methyl tert-butyl ether	7.0	Not Detected	25	Not Detected
trans-1,2-Dichloroethene	7.0	Not Detected	28	Not Detected
Hexane	7.0	Not Detected	25	Not Detected
1,1-Dichloroethane	7.0	Not Detected	28	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28	65	83	190
cis-1,2-Dichloroethene	7.0	Not Detected	28	Not Detected
Tetrahydrofuran	7.0	Not Detected	21	Not Detected
Chloroform	7.0	Not Detected	34	Not Detected
1,1,1-Trichloroethane	7.0	Not Detected	38	Not Detected
Cyclohexane	7.0	Not Detected	24	Not Detected
Carbon Tetrachloride	7.0	Not Detected	44	Not Detected
2,2,4-Trimethylpentane	7.0	Not Detected	33	Not Detected
Benzene	7.0	Not Detected	22	Not Detected
1,2-Dichloroethane	7.0	Not Detected	28	Not Detected
Heptane	7.0	48	29	200
Trichloroethene	7.0	Not Detected	38	Not Detected
1,2-Dichloropropane	7.0	Not Detected	32	Not Detected
1,4-Dioxane	28	Not Detected	100	Not Detected
Bromodichloromethane	7.0	Not Detected	47	Not Detected
cis-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected
4-Methyl-2-pentanone	28	Not Detected	120	Not Detected
Toluene	7.0	210	26	790
trans-1,3-Dichloropropene	7.0	Not Detected	32	Not Detected
1,1,2-Trichloroethane	7.0	Not Detected	38	Not Detected
Tetrachloroethene	7.0	Not Detected	48	Not Detected
2-Hexanone	28	Not Detected	120	Not Detected

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Client Sample ID: Z2-1-IA-202410

Lab ID#: 2410344-12A

EPA METHOD TO-15 GC/MS

File Name:	**14102449**	**Date of Collection: 10/8/24 5:34:00 PM**	
Dil. Factor:	**1.41**	**Date of Analysis: 10/25/24 03:00 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.0	Not Detected	60	Not Detected
1,2-Dibromoethane (EDB)	7.0	Not Detected	54	Not Detected
Chlorobenzene	7.0	Not Detected	32	Not Detected
Ethyl Benzene	7.0	83	31	360
m,p-Xylene	7.0	330	31	1400
o-Xylene	7.0	98	31	430
Styrene	7.0	Not Detected	30	Not Detected
Bromoform	7.0	Not Detected	73	Not Detected
Cumene	7.0	Not Detected	35	Not Detected
1,1,2,2-Tetrachloroethane	7.0	Not Detected	48	Not Detected
Propylbenzene	7.0	Not Detected	35	Not Detected
4-Ethyltoluene	7.0	Not Detected	35	Not Detected
1,3,5-Trimethylbenzene	7.0	Not Detected	35	Not Detected
1,2,4-Trimethylbenzene	7.0	Not Detected	35	Not Detected
1,3-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,4-Dichlorobenzene	7.0	Not Detected	42	Not Detected
alpha-Chlorotoluene	7.0	Not Detected	36	Not Detected
1,2-Dichlorobenzene	7.0	Not Detected	42	Not Detected
1,2,4-Trichlorobenzene	28	Not Detected	210	Not Detected
Hexachlorobutadiene	28	Not Detected	300	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102308c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 02:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102308c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 02:51 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102308sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 02:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.050	Not Detected	0.25	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13C

EPA METHOD TO-15 GC/MS

File Name:	**14102446d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	25	Not Detected	47	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	25	Not Detected	61	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13C

EPA METHOD TO-15 GC/MS

File Name:	**14102446d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410344-13E

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505simc**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.050	Not Detected	0.25	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102303**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 10:54 AM**

Compound	%Recovery
1,3-Butadiene	89
Bromomethane	105
Freon 11	114
Ethanol	90
Freon 113	111
Acetone	72
2-Propanol	106
Carbon Disulfide	92
3-Chloropropene	97
Methylene Chloride	86
Hexane	87
2-Butanone (Methyl Ethyl Ketone)	98
Tetrahydrofuran	78
Cyclohexane	102
2,2,4-Trimethylpentane	85
Heptane	78
1,2-Dichloropropane	72
1,4-Dioxane	108
Bromodichloromethane	96
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	72
trans-1,3-Dichloropropene	95
2-Hexanone	88
Dibromochloromethane	101
Chlorobenzene	95
Styrene	108
Bromoform	106
Cumene	108
Propylbenzene	108
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	102
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	127
Hexachlorobutadiene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130

Client Sample ID: CCV

Lab ID#: 2410344-14A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 10:54 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102303sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 10:54 AM**	

Compound	%Recovery
Freon 12	100
Freon 114	99
Chloromethane	74
Vinyl Chloride	88
Chloroethane	85
1,1-Dichloroethene	100
trans-1,2-Dichloroethene	102
Methyl tert-butyl ether	118
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	103
Chloroform	90
1,1,1-Trichloroethane	106
Carbon Tetrachloride	107
Benzene	78
1,2-Dichloroethane	83
Trichloroethene	92
Toluene	86
1,1,2-Trichloroethane	85
Tetrachloroethene	90
1,2-Dibromoethane (EDB)	92
Ethyl Benzene	103
m,p-Xylene	109
o-Xylene	110
1,1,2,2-Tetrachloroethane	73
1,4-Dichlorobenzene	110

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14C

EPA METHOD TO-15 GC/MS

File Name:	**14102442**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/24 11:22 PM**

Compound	%Recovery
Freon 12	104
Freon 114	100
Chloromethane	107
Vinyl Chloride	101
1,3-Butadiene	99
Bromomethane	105
Chloroethane	115
Freon 11	106
Ethanol	84
Freon 113	107
1,1-Dichloroethene	110
Acetone	107
2-Propanol	83
Carbon Disulfide	100
3-Chloropropene	102
Methylene Chloride	115
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	98
Hexane	102
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	99
Tetrahydrofuran	98
Chloroform	106
1,1,1-Trichloroethane	99
Cyclohexane	100
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	105
Benzene	105
1,2-Dichloroethane	109
Heptane	97
Trichloroethene	103
1,2-Dichloropropane	104
1,4-Dioxane	94
Bromodichloromethane	100
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	91
Toluene	103
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	97
Tetrachloroethene	104
2-Hexanone	100

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Client Sample ID: CCV

Lab ID#: 2410344-14C

EPA METHOD TO-15 GC/MS

File Name:	**14102442**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/24 11:22 PM**	

Compound	%Recovery
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	101
Chlorobenzene	104
Ethyl Benzene	102
m,p-Xylene	100
o-Xylene	101
Styrene	101
Bromoform	104
Cumene	103
1,1,2,2-Tetrachloroethane	103
Propylbenzene	98
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	77

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**

Compound	%Recovery
1,3-Butadiene	97
Bromomethane	96
Freon 11	95
Ethanol	89
Freon 113	97
Acetone	98
2-Propanol	99
Carbon Disulfide	93
3-Chloropropene	98
Methylene Chloride	95
Hexane	110
2-Butanone (Methyl Ethyl Ketone)	121
Tetrahydrofuran	102
Cyclohexane	104
2,2,4-Trimethylpentane	98
Heptane	108
1,2-Dichloropropane	102
1,4-Dioxane	115
Bromodichloromethane	103
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	95
trans-1,3-Dichloropropene	99
2-Hexanone	104
Dibromochloromethane	100
Chlorobenzene	102
Styrene	101
Bromoform	97
Cumene	107
Propylbenzene	104
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	101
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 2410344-14E

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**	

Compound	%Recovery
Freon 12	89
Freon 114	96
Chloromethane	92
Vinyl Chloride	90
Chloroethane	98
1,1-Dichloroethene	94
trans-1,2-Dichloroethene	99
Methyl tert-butyl ether	102
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	99
Chloroform	98
1,1,1-Trichloroethane	92
Carbon Tetrachloride	95
Benzene	96
1,2-Dichloroethane	89
Trichloroethene	96
Toluene	92
1,1,2-Trichloroethane	97
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	95
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	102
1,1,2,2-Tetrachloroethane	92
1,4-Dichlorobenzene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 11:26 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	81	70-130
Bromomethane	103	70-130
Freon 11	117	70-130
Ethanol	77	70-130
Freon 113	109	70-130
Acetone	70	70-130
2-Propanol	100	70-130
Carbon Disulfide	87	70-130
3-Chloropropene	95	70-130
Methylene Chloride	79	70-130
Hexane	86	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
Tetrahydrofuran	82	70-130
Cyclohexane	101	70-130
2,2,4-Trimethylpentane	81	70-130
Heptane	83	70-130
1,2-Dichloropropane	84	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	80	70-130
trans-1,3-Dichloropropene	101	70-130
2-Hexanone	85	70-130
Dibromochloromethane	105	70-130
Chlorobenzene	96	70-130
Styrene	109	70-130
Bromoform	90	70-130
Cumene	108	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	109	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	97	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130

Client Sample ID: LCS

Lab ID#: 2410344-15A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 11:26 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 12:10 PM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	83	70-130
Bromomethane	95	70-130
Freon 11	111	70-130
Ethanol	64 Q	70-130
Freon 113	103	70-130
Acetone	70	70-130
2-Propanol	100	70-130
Carbon Disulfide	85	70-130
3-Chloropropene	94	70-130
Methylene Chloride	80	70-130
Hexane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
Tetrahydrofuran	76	70-130
Cyclohexane	95	70-130
2,2,4-Trimethylpentane	79	70-130
Heptane	74	70-130
1,2-Dichloropropane	71	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	91	70-130
cis-1,3-Dichloropropene	91	70-130
4-Methyl-2-pentanone	70	70-130
trans-1,3-Dichloropropene	98	70-130
2-Hexanone	81	70-130
Dibromochloromethane	102	70-130
Chlorobenzene	96	70-130
Styrene	106	70-130
Bromoform	105	70-130
Cumene	106	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	103	70-130
1,3-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	128	70-130
Hexachlorobutadiene	103	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: LCSD

Lab ID#: 2410344-15AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 12:10 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102304sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 11:26 AM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	96	70-130
Chloromethane	71	70-130
Vinyl Chloride	84	70-130
Chloroethane	82	70-130
1,1-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	95	70-130
Methyl tert-butyl ether	109	70-130
1,1-Dichloroethane	82	70-130
cis-1,2-Dichloroethene	98	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	106	70-130
Carbon Tetrachloride	106	60-140
Benzene	77	70-130
1,2-Dichloroethane	82	70-130
Trichloroethene	91	70-130
Toluene	85	70-130
1,1,2-Trichloroethane	88	70-130
Tetrachloroethene	93	70-130
1,2-Dibromoethane (EDB)	93	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	111	70-130
o-Xylene	111	70-130
1,1,2,2-Tetrachloroethane	73	70-130
1,4-Dichlorobenzene	109	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15BB

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**21102305sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/23/24 12:10 PM**	

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	103	70-130
Chloromethane	73	70-130
Vinyl Chloride	86	70-130
Chloroethane	82	70-130
1,1-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	98	70-130
Methyl tert-butyl ether	114	70-130
1,1-Dichloroethane	84	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	104	60-140
Benzene	78	70-130
1,2-Dichloroethane	83	70-130
Trichloroethene	91	70-130
Toluene	85	70-130
1,1,2-Trichloroethane	87	70-130
Tetrachloroethene	91	70-130
1,2-Dibromoethane (EDB)	93	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	109	70-130
o-Xylene	110	70-130
1,1,2,2-Tetrachloroethane	71	70-130
1,4-Dichlorobenzene	106	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15C

EPA METHOD TO-15 GC/MS

File Name:	**14102443**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/24 11:46 PM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	93	70-130
Chloromethane	98	70-130
Vinyl Chloride	91	70-130
1,3-Butadiene	93	70-130
Bromomethane	98	70-130
Chloroethane	95	70-130
Freon 11	99	70-130
Ethanol	85	70-130
Freon 113	95	70-130
1,1-Dichloroethene	95	70-130
Acetone	96	70-130
2-Propanol	94	70-130
Carbon Disulfide	89	70-130
3-Chloropropene	90	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	89	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	90	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	90	70-130
Tetrahydrofuran	89	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	89	70-130
Cyclohexane	90	70-130
Carbon Tetrachloride	91	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	97	70-130
1,2-Dichloroethane	102	70-130
Heptane	84	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	94	70-130
cis-1,3-Dichloropropene	89	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	93	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	96	70-130
2-Hexanone	91	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15C

EPA METHOD TO-15 GC/MS

File Name:	**14102443**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/24 11:46 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	92	70-130
1,2-Dibromoethane (EDB)	92	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	93	70-130
o-Xylene	95	70-130
Styrene	93	70-130
Bromoform	95	70-130
Cumene	93	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	92	70-130
1,3-Dichlorobenzene	94	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	75	70-130
1,2-Dichlorobenzene	95	70-130
1,2,4-Trichlorobenzene	101	70-130
Hexachlorobutadiene	102	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15CC

EPA METHOD TO-15 GC/MS

File Name:	**14102444**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:07 AM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	95	70-130
Chloromethane	96	70-130
Vinyl Chloride	95	70-130
1,3-Butadiene	92	70-130
Bromomethane	98	70-130
Chloroethane	100	70-130
Freon 11	103	70-130
Ethanol	85	70-130
Freon 113	96	70-130
1,1-Dichloroethene	96	70-130
Acetone	100	70-130
2-Propanol	94	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	92	70-130
Methylene Chloride	102	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	89	70-130
1,1-Dichloroethane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	90	70-130
Tetrahydrofuran	90	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	90	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	98	70-130
1,2-Dichloroethane	101	70-130
Heptane	86	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	97	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	93	70-130
cis-1,3-Dichloropropene	91	70-130
4-Methyl-2-pentanone	84	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	91	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	95	70-130
2-Hexanone	92	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15CC

EPA METHOD TO-15 GC/MS

File Name:	**14102444**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:07 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	92	70-130
1,2-Dibromoethane (EDB)	91	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	90	70-130
o-Xylene	94	70-130
Styrene	92	70-130
Bromoform	92	70-130
Cumene	92	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	92	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	76	70-130
1,2-Dichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	101	70-130
Hexachlorobutadiene	98	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	89	70-130
Bromomethane	95	70-130
Freon 11	95	70-130
Ethanol	90	70-130
Freon 113	95	70-130
Acetone	95	70-130
2-Propanol	111	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	97	70-130
Methylene Chloride	92	70-130
Hexane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	115	70-130
Tetrahydrofuran	101	70-130
Cyclohexane	102	70-130
2,2,4-Trimethylpentane	98	70-130
Heptane	102	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	121	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	97	70-130
trans-1,3-Dichloropropene	104	70-130
2-Hexanone	106	70-130
Dibromochloromethane	100	70-130
Chlorobenzene	101	70-130
Styrene	103	70-130
Bromoform	99	70-130
Cumene	104	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	113	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15D

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15DD

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	90	70-130
Bromomethane	94	70-130
Freon 11	89	70-130
Ethanol	83	70-130
Freon 113	88	70-130
Acetone	84	70-130
2-Propanol	98	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	89	70-130
Methylene Chloride	84	70-130
Hexane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
Tetrahydrofuran	100	70-130
Cyclohexane	102	70-130
2,2,4-Trimethylpentane	88	70-130
Heptane	104	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	118	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	85	70-130
trans-1,3-Dichloropropene	100	70-130
2-Hexanone	108	70-130
Dibromochloromethane	105	70-130
Chlorobenzene	102	70-130
Styrene	109	70-130
Bromoform	106	70-130
Cumene	110	70-130
Propylbenzene	112	70-130
4-Ethyltoluene	115	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	109	70-130
1,2,4-Trichlorobenzene	118	70-130
Hexachlorobutadiene	118	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130

Client Sample ID: LCSD

Lab ID#: 2410344-15DD

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCS

Lab ID#: 2410344-15E

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Compound	%Recovery	Method Limits
Freon 12	81	70-130
Freon 114	89	70-130
Chloromethane	81	70-130
Vinyl Chloride	86	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	97	70-130
Methyl tert-butyl ether	98	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	92	70-130
Carbon Tetrachloride	94	60-140
Benzene	96	70-130
1,2-Dichloroethane	87	70-130
Trichloroethene	94	70-130
Toluene	92	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	95	70-130
1,2-Dibromoethane (EDB)	93	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	102	70-130
o-Xylene	102	70-130
1,1,2,2-Tetrachloroethane	92	70-130
1,4-Dichlorobenzene	98	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2410344-15EE

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Compound	%Recovery	Method Limits
Freon 12	81	70-130
Freon 114	90	70-130
Chloromethane	80	70-130
Vinyl Chloride	88	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	86	70-130
trans-1,2-Dichloroethene	93	70-130
Methyl tert-butyl ether	93	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	95	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	93	60-140
Benzene	91	70-130
1,2-Dichloroethane	86	70-130
Trichloroethene	90	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	97	70-130
1,2-Dibromoethane (EDB)	100	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	103	70-130
o-Xylene	107	70-130
1,1,2,2-Tetrachloroethane	98	70-130
1,4-Dichlorobenzene	104	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	111	70-130

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.050
76-14-2	Freon 114	0.020
74-87-3	Chloromethane	0.50
75-01-4	Vinyl Chloride	0.010
75-00-3	Chloroethane	0.050
75-35-4	1,1-Dichloroethene	0.010
156-60-5	trans-1,2-Dichloroethene	0.10
1634-04-4	Methyl tert-butyl ether	0.10
75-34-3	1,1-Dichloroethane	0.020
156-59-2	cis-1,2-Dichloroethene	0.020
67-66-3	Chloroform	0.020
71-55-6	1,1,1-Trichloroethane	0.020
56-23-5	Carbon Tetrachloride	0.020
71-43-2	Benzene	0.050
107-06-2	1,2-Dichloroethane	0.020
79-01-6	Trichloroethene	0.020
108-88-3	Toluene	0.050
79-00-5	1,1,2-Trichloroethane	0.020
127-18-4	Tetrachloroethene	0.020
106-93-4	1,2-Dibromoethane (EDB)	0.020
100-41-4	Ethyl Benzene	0.020
108-38-3	m,p-Xylene	0.040
95-47-6	o-Xylene	0.020
79-34-5	1,1,2,2-Tetrachloroethane	0.020
106-46-7	1,4-Dichlorobenzene	0.020
106-99-0	1,3-Butadiene	0.10
74-83-9	Bromomethane	5.0
75-69-4	Freon 11	0.10
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.10
67-64-1	Acetone	2.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	0.50
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	0.20
110-54-3	Hexane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50
109-99-9	Tetrahydrofuran	0.50
110-82-7	Cyclohexane	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
142-82-5	Heptane	0.50
78-87-5	1,2-Dichloropropane	0.10
123-91-1	1,4-Dioxane	0.10
75-27-4	Bromodichloromethane	0.10

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
10061-01-5	cis-1,3-Dichloropropene	0.10
108-10-1	4-Methyl-2-pentanone	0.10
10061-02-6	trans-1,3-Dichloropropene	0.10
591-78-6	2-Hexanone	0.50
124-48-1	Dibromochloromethane	0.10
108-90-7	Chlorobenzene	0.10
100-42-5	Styrene	0.10
75-25-2	Bromoform	0.10
98-82-8	Cumene	0.10
103-65-1	Propylbenzene	0.10
622-96-8	4-Ethyltoluene	0.10
108-67-8	1,3,5-Trimethylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
541-73-1	1,3-Dichlorobenzene	0.10
100-44-7	alpha-Chlorotoluene	0.10
95-50-1	1,2-Dichlorobenzene	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50
87-68-3	Hexachlorobutadiene	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	**4-Bromofluorobenzene**	**70-130**

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2410344

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

page 1 of

Client: Ramboll
Site Name: Whirlpool
Project Manager: Will Campbell
Sampler: GP/JK

Project Name: Whirlpool Annual
Project #: 1940108132
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy): $
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	TO-15 SIM				Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
01A	Z6-2-IA-202410	6L2561	28015	10/8	0738	10/8	1540	X				-26	-5		
02A	DUP-IA-202410	6L1523	27078	10/8	0738	10/8	1527	X				-27	-5		
03A	Z5-2-IA-202410	6L4010	26207	10/8	0747	10/8	1500	X				-27	-5		
04A	Z5-OF-IA-202410	6L3125	26014	10/8	0759	10/8	1537	X				-27	-5		
05A	Z6-1-IA-202410	6L2250	27266	10/8	0805	10/8	1608	X				-30	-5		
06A	Z5-1-IA-202410	6L3289	27961	10/8	0811	10/8	1605	X				-26	-5		
07A	Z3-1-IA-202410	6L1903	27247	10/8	0837	10/8	1650	X				-30	-5		
08A	Z4-1-IA-202410	6L1113	26752	10/8	0843	10/8	1653	X				-30	-5		
09A	AA-1-202410	6L4046	25684	10/8	0851	10/8	1722	X				-28	-5		
10A	Z3-2-IA-202410	6L3919	25672	10/8	0944	10/8	1729	X				-29	-7.5		
11A	Z4-2-IA-202410	6L1990	27367	10/8	0949	10/8	1732	X				-30	-5		
12A	Z2-1-IA-202410	6L1457	27748	10/8	0954	10/8	1734	X				-29	-6		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	10/8/24	1750		10/9/24	0933
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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10/28/2024
Mr. David Meyer
Ramboll
82 Corporate Woods
10851 Mastin Blvd., Suite 100
Overland Park KS 66210

Project Name: Whirlpool Annual
Project #: 1940108132
Workorder #: 2410353A

Dear Mr. David Meyer

The following report includes the data for the above referenced project for sample(s) received on 10/10/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2410353A

Work Order Summary

CLIENT:	Mr. David Meyer Ramboll 82 Corporate Woods 10851 Mastin Blvd., Suite 100 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	1940108132 Whirlpool Annual
DATE RECEIVED:	10/10/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/28/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	AA-2-202410	Modified TO-15	8 "Hg	2 psi
03B	AA-2-202410	Modified TO-15	8 "Hg	2 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/28/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Ramboll
Workorder# 2410353A

One 6 Liter Summa Canister (100% SIM Ambient) sample was received on October 10, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample AA-2-202410 did not match the entry on the sample tag with regard to sample identification. The information on the sample tag was used to process and report the sample.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

The reporting limit for 1,4-Dioxane was raised from 0.10 ppbv to 0.50 ppbv due to anomalous linearity in the Initial Calibration.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: AA-2-202410

Lab ID#: 2410353A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.16	0.19	0.87	1.1
Acetone	3.1	3.8	7.4	9.1

Client Sample ID: AA-2-202410

Lab ID#: 2410353A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.078	0.40	0.38	2.0
Carbon Tetrachloride	0.031	0.065	0.20	0.41
Benzene	0.078	0.098	0.25	0.31
Toluene	0.078	0.16	0.29	0.59
m,p-Xylene	0.062	0.082	0.27	0.36
o-Xylene	0.031	0.044	0.13	0.19

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Client Sample ID: AA-2-202410

Lab ID#: 2410353A-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102506**	**Date of Collection: 10/9/24 5:00:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 10/25/24 04:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.34	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Freon 11	0.16	0.19	0.87	1.1
Ethanol	3.1	Not Detected	5.8	Not Detected
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	3.1	3.8	7.4	9.1
2-Propanol	3.1	Not Detected	7.6	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.78	Not Detected	2.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Cyclohexane	0.78	Not Detected	2.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.78	Not Detected	3.2	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.78	Not Detected	2.8	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.71	Not Detected
Styrene	0.16	Not Detected	0.66	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected
Propylbenzene	0.16	Not Detected	0.76	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.76	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.80	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130

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Client Sample ID: AA-2-202410

Lab ID#: 2410353A-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102506**	**Date of Collection: 10/9/24 5:00:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 10/25/24 04:48 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: AA-2-202410

Lab ID#: 2410353A-03B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102506sim**	**Date of Collection: 10/9/24 5:00:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 10/25/24 04:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.078	0.40	0.38	2.0
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.78	Not Detected	1.6	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.078	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.065	0.20	0.41
Benzene	0.078	0.098	0.25	0.31
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.078	0.16	0.29	0.59
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	Not Detected	0.13	Not Detected
m,p-Xylene	0.062	0.082	0.27	0.36
o-Xylene	0.031	0.044	0.13	0.19
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410353A-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.50	Not Detected	1.8	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410353A-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410353A-04B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102505simc**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 01:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.050	Not Detected	0.25	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: CCV

Lab ID#: 2410353A-05A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**

Compound	%Recovery
1,3-Butadiene	97
Bromomethane	96
Freon 11	95
Ethanol	89
Freon 113	97
Acetone	98
2-Propanol	99
Carbon Disulfide	93
3-Chloropropene	98
Methylene Chloride	95
Hexane	110
2-Butanone (Methyl Ethyl Ketone)	121
Tetrahydrofuran	102
Cyclohexane	104
2,2,4-Trimethylpentane	98
Heptane	108
1,2-Dichloropropane	102
1,4-Dioxane	115
Bromodichloromethane	103
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	95
trans-1,3-Dichloropropene	99
2-Hexanone	104
Dibromochloromethane	100
Chlorobenzene	102
Styrene	101
Bromoform	97
Cumene	107
Propylbenzene	104
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	101
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130

Client Sample ID: CCV

Lab ID#: 2410353A-05A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 2410353A-05B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102502sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:07 AM**	

Compound	%Recovery
Freon 12	89
Freon 114	96
Chloromethane	92
Vinyl Chloride	90
Chloroethane	98
1,1-Dichloroethene	94
trans-1,2-Dichloroethene	99
Methyl tert-butyl ether	102
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	99
Chloroform	98
1,1,1-Trichloroethane	92
Carbon Tetrachloride	95
Benzene	96
1,2-Dichloroethane	89
Trichloroethene	96
Toluene	92
1,1,2-Trichloroethane	97
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	95
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	102
1,1,2,2-Tetrachloroethane	92
1,4-Dichlorobenzene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2410353A-06A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	89	70-130
Bromomethane	95	70-130
Freon 11	95	70-130
Ethanol	90	70-130
Freon 113	95	70-130
Acetone	95	70-130
2-Propanol	111	70-130
Carbon Disulfide	95	70-130
3-Chloropropene	97	70-130
Methylene Chloride	92	70-130
Hexane	98	70-130
2-Butanone (Methyl Ethyl Ketone)	115	70-130
Tetrahydrofuran	101	70-130
Cyclohexane	102	70-130
2,2,4-Trimethylpentane	98	70-130
Heptane	102	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	121	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	97	70-130
trans-1,3-Dichloropropene	104	70-130
2-Hexanone	106	70-130
Dibromochloromethane	100	70-130
Chlorobenzene	101	70-130
Styrene	103	70-130
Bromoform	99	70-130
Cumene	104	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	110	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	113	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130

Client Sample ID: LCS

Lab ID#: 2410353A-06A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 2410353A-06AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	90	70-130
Bromomethane	94	70-130
Freon 11	89	70-130
Ethanol	83	70-130
Freon 113	88	70-130
Acetone	84	70-130
2-Propanol	98	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	89	70-130
Methylene Chloride	84	70-130
Hexane	95	70-130
2-Butanone (Methyl Ethyl Ketone)	108	70-130
Tetrahydrofuran	100	70-130
Cyclohexane	102	70-130
2,2,4-Trimethylpentane	88	70-130
Heptane	104	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	118	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	85	70-130
trans-1,3-Dichloropropene	100	70-130
2-Hexanone	108	70-130
Dibromochloromethane	105	70-130
Chlorobenzene	102	70-130
Styrene	109	70-130
Bromoform	106	70-130
Cumene	110	70-130
Propylbenzene	112	70-130
4-Ethyltoluene	115	70-130
1,3,5-Trimethylbenzene	119	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	109	70-130
1,2,4-Trichlorobenzene	118	70-130
Hexachlorobutadiene	118	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130

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Client Sample ID: LCSD

Lab ID#: 2410353A-06AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: LCS

Lab ID#: 2410353A-06B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102503sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 11:58 AM**	

Compound	%Recovery	Method Limits
Freon 12	81	70-130
Freon 114	89	70-130
Chloromethane	81	70-130
Vinyl Chloride	86	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	97	70-130
Methyl tert-butyl ether	98	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	92	70-130
Carbon Tetrachloride	94	60-140
Benzene	96	70-130
1,2-Dichloroethane	87	70-130
Trichloroethene	94	70-130
Toluene	92	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	95	70-130
1,2-Dibromoethane (EDB)	93	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	102	70-130
o-Xylene	102	70-130
1,1,2,2-Tetrachloroethane	92	70-130
1,4-Dichlorobenzene	98	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2410353A-06BB

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**12102504sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/25/24 12:50 PM**	

Compound	%Recovery	Method Limits
Freon 12	81	70-130
Freon 114	90	70-130
Chloromethane	80	70-130
Vinyl Chloride	88	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	86	70-130
trans-1,2-Dichloroethene	93	70-130
Methyl tert-butyl ether	93	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	95	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	93	60-140
Benzene	91	70-130
1,2-Dichloroethane	86	70-130
Trichloroethene	90	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	97	70-130
1,2-Dibromoethane (EDB)	100	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	103	70-130
o-Xylene	107	70-130
1,1,2,2-Tetrachloroethane	98	70-130
1,4-Dichlorobenzene	104	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	111	70-130

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.050
76-14-2	Freon 114	0.020
74-87-3	Chloromethane	0.50
75-01-4	Vinyl Chloride	0.010
75-00-3	Chloroethane	0.050
75-35-4	1,1-Dichloroethene	0.010
156-60-5	trans-1,2-Dichloroethene	0.10
1634-04-4	Methyl tert-butyl ether	0.10
75-34-3	1,1-Dichloroethane	0.020
156-59-2	cis-1,2-Dichloroethene	0.020
67-66-3	Chloroform	0.020
71-55-6	1,1,1-Trichloroethane	0.020
56-23-5	Carbon Tetrachloride	0.020
71-43-2	Benzene	0.050
107-06-2	1,2-Dichloroethane	0.020
79-01-6	Trichloroethene	0.020
108-88-3	Toluene	0.050
79-00-5	1,1,2-Trichloroethane	0.020
127-18-4	Tetrachloroethene	0.020
106-93-4	1,2-Dibromoethane (EDB)	0.020
100-41-4	Ethyl Benzene	0.020
108-38-3	m,p-Xylene	0.040
95-47-6	o-Xylene	0.020
79-34-5	1,1,2,2-Tetrachloroethane	0.020
106-46-7	1,4-Dichlorobenzene	0.020
106-99-0	1,3-Butadiene	0.10
74-83-9	Bromomethane	5.0
75-69-4	Freon 11	0.10
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.10
67-64-1	Acetone	2.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	0.50
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	0.20
110-54-3	Hexane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50
109-99-9	Tetrahydrofuran	0.50
110-82-7	Cyclohexane	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
142-82-5	Heptane	0.50
78-87-5	1,2-Dichloropropane	0.10
123-91-1	1,4-Dioxane	0.10
75-27-4	Bromodichloromethane	0.10

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
10061-01-5	cis-1,3-Dichloropropene	0.10
108-10-1	4-Methyl-2-pentanone	0.10
10061-02-6	trans-1,3-Dichloropropene	0.10
591-78-6	2-Hexanone	0.50
124-48-1	Dibromochloromethane	0.10
108-90-7	Chlorobenzene	0.10
100-42-5	Styrene	0.10
75-25-2	Bromoform	0.10
98-82-8	Cumene	0.10
103-65-1	Propylbenzene	0.10
622-96-8	4-Ethyltoluene	0.10
108-67-8	1,3,5-Trimethylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
541-73-1	1,3-Dichlorobenzene	0.10
100-44-7	alpha-Chlorotoluene	0.10
95-50-1	1,2-Dichlorobenzene	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50
87-68-3	Hexachlorobutadiene	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	**4-Bromofluorobenzene**	**70-130**

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2410353

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

page ____ of ____

Client: Ramboll
Site Name: Whirlpool
Project Manager: Will Campbell
Sampler: GP/JK

Project Name: Whirlpool Annual
Project #: 1940108132
PO#:

Turnaround Time (Specify Below)
Standard X Rush ____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Requested Analyses: TO-15SIM	Requested Analyses: TO-15	Canister Vacuum/Pressure: Initial (in Hg)	Canister Vacuum/Pressure: Final (in Hg)	Lab Use Only: Receipt (in "Hg)	Lab Use Only: Final (in psi) Gas: N2 / He
~~01A~~	~~Z1-1-IA-202410~~	~~6L2795~~	~~22568~~	~~10/8~~	~~1003~~	~~10/8~~	~~1937~~	X		~~-30~~	~~-7~~		
02A	Z6-2-202410	1L1713	23196	10/9	0822	10/9	0848		X	-30	-5		
03A	Z5-2-202410	1L4305	24748	10/9	0903	10/9	0928		X	-30	-5		
04A	AA-2-2024	6L0868	26141	10/9	0949	10/9	1700	X		-27	-7		
05A	Z3-1-202410	1L3934	25212	10/9	1022	10/9	1041		X	-27	-5		
06A	Z4-1-202410	1L4762	23154	10/9	1101	10/9	1125		X	-30	-5		
07A	Z5-OF-202410	1L2030	23185	10/9	1153	10/9	1215		X	-29	-5		
08A	Z6-1-202410	1L2281	27037	10/9	1230	10/9	1246		X	-27	-4		
09A	Z5-1-202410	1L4065	23608	10/9	1302	10/9	1326		X	-29	-5		
10A	Z3-2-202410	1L1540	23937	10/9	1423	10/9	1446		X	-29	-5		
11A	Z4-2-202410	1L4536	24024	10/9	1503	10/9	1525		X	-30	-5		
12A	Z2-1-202410	1L1869	24804	10/9	1538	10/9	1600		X	-27	-5		

Special Instructions/Notes:
DO NOT ANAYLZE Z1-1-202410

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Gaelen Keller	10/9/24	1700	Mark Spindler FEDEX	10/10/24	9:43
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only
Shipper Name: Fedex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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10/23/2024
Mr. David Meyer
Ramboll
82 Corporate Woods
10851 Mastin Blvd., Suite 100
Overland Park KS 66210

Project Name: Whirlpool Annual
Project #: 1940108132
Workorder #: 2410353B

Dear Mr. David Meyer

The following report includes the data for the above referenced project for sample(s) received on 10/10/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2410353B

Work Order Summary

CLIENT:	Mr. David Meyer Ramboll 82 Corporate Woods 10851 Mastin Blvd., Suite 100 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	1940108132 Whirlpool Annual
DATE RECEIVED:	10/10/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/23/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Z6-2-202410	TO-15	4.1 "Hg	10 psi
02A	Z5-2-202410	TO-15	6.7 "Hg	9.9 psi
04A	Z3-1-202410	TO-15	6.5 "Hg	10.1 psi
05A	Z4-1-202410	TO-15	5.3 "Hg	9.8 psi
06A	Z5-OF-202410	TO-15	5.5 "Hg	10.1 psi
07A	Z6-1-202410	TO-15	9.2 "Hg	9.9 psi
08A	Z5-1-202410	TO-15	5.9 "Hg	10.1 psi
09A	Z3-2-202410	TO-15	4.9 "Hg	10 psi
10A	Z4-2-202410	TO-15	5.5 "Hg	10.1 psi
11A	Z2-1-202410	TO-15	5.5 "Hg	10.1 psi
12A	Lab Blank	TO-15	NA	NA
13A	CCV	TO-15	NA	NA
14A	LCS	TO-15	NA	NA
14AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/23/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
EPA Method TO-15
Ramboll
Workorder# 2410353B

Ten 1 Liter Summa Canister samples were received on October 10, 2024. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Z3-1-202410, Z6-1-202410 and Z2-1-202410 due to the presence of high level target species.

The reporting limit for Ethanol was raised from 5.0 ppbv to 6.1 ppbv due to anomalous linearity in the Initial Calibration.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Z6-2-202410

Lab ID#: 2410353B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	12	19	22	35

Client Sample ID: Z5-2-202410

Lab ID#: 2410353B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	24	5.3	120
Vinyl Chloride	1.1	3.7	2.7	9.6
Freon 11	1.1	190	6.0	1000
Freon 113	1.1	2.1	8.2	16
Acetone	11	13	26	31
Chloroform	1.1	1.1	5.2	5.2
1,1,1-Trichloroethane	1.1	20	5.9	110
Trichloroethene	1.1	230	5.8	1200
Tetrachloroethene	1.1	4.4	7.3	30
m,p-Xylene	2.2	3.5	9.3	15
o-Xylene	1.1	1.5	4.7	6.7
4-Ethyltoluene	1.1	1.2	5.3	5.8
1,2,4-Trimethylbenzene	1.1	1.9	5.3	9.3

Client Sample ID: Z3-1-202410

Lab ID#: 2410353B-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	11	2300	27	5800
trans-1,2-Dichloroethene	11	79	43	310
Hexane	11	11	38	39
1,1-Dichloroethane	11	65	44	260
cis-1,2-Dichloroethene	11	87	43	350
Trichloroethene	11	43	58	230
Tetrachloroethene	11	18	73	120

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Z4-1-202410

Lab ID#: 2410353B-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	19	2.6	48
Freon 11	1.0	2.8	5.7	16
Acetone	10	20	24	48
trans-1,2-Dichloroethene	1.0	4.8	4.0	19
1,1-Dichloroethane	1.0	2.0	4.1	8.0
cis-1,2-Dichloroethene	1.0	5.4	4.0	21
1,1,1-Trichloroethane	1.0	9.4	5.5	51
Trichloroethene	1.0	32	5.4	170
Tetrachloroethene	1.0	7.1	6.8	48

Client Sample ID: Z5-OF-202410

Lab ID#: 2410353B-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	3.4	2.6	8.6
Ethanol	12	22	24	41
trans-1,2-Dichloroethene	1.0	1.3	4.1	5.1
cis-1,2-Dichloroethene	1.0	1.5	4.1	6.0
Trichloroethene	1.0	13	5.5	72
Tetrachloroethene	1.0	3.4	7.0	23

Client Sample ID: Z6-1-202410

Lab ID#: 2410353B-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	9.6	180	39	750
1,1,1-Trichloroethane	9.6	1800	53	10000
Trichloroethene	9.6	31	52	160
Tetrachloroethene	9.6	150	65	1000

Client Sample ID: Z5-1-202410

Lab ID#: 2410353B-08A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Z5-1-202410

Lab ID#: 2410353B-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	1.7	2.7	4.5
Acetone	10	13	25	30
Carbon Disulfide	4.2	49	13	150
1,1-Dichloroethane	1.0	7.6	4.2	31
1,1,1-Trichloroethane	1.0	110	5.7	620
Trichloroethene	1.0	19	5.6	100
Tetrachloroethene	1.0	62	7.1	420

Client Sample ID: Z3-2-202410

Lab ID#: 2410353B-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	1.6	2.6	4.0
Freon 11	1.0	48	5.6	270
Acetone	10	23	24	56
Carbon Disulfide	4.0	11	12	34
1,1-Dichloroethane	1.0	1.8	4.1	7.3
Chloroform	1.0	2.4	4.9	12
1,1,1-Trichloroethane	1.0	25	5.5	140
Trichloroethene	1.0	54	5.4	290
1,4-Dioxane	4.0	12	14	43
Tetrachloroethene	1.0	170	6.8	1100
Ethyl Benzene	1.0	1.2	4.4	5.1
m,p-Xylene	2.0	5.0	8.7	22
o-Xylene	1.0	1.4	4.4	6.2

Client Sample ID: Z4-2-202410

Lab ID#: 2410353B-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	5.6	5.1	28
Freon 11	1.0	150	5.8	870
Freon 113	1.0	3.1	7.9	24

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Z4-2-202410

Lab ID#: 2410353B-10A

Acetone	10	11	24	27
1,1-Dichloroethane	1.0	1.1	4.2	4.3
1,1,1-Trichloroethane	1.0	12	5.6	66
Trichloroethene	1.0	14	5.5	75
Tetrachloroethene	1.0	81	7.0	550
Ethyl Benzene	1.0	4.6	4.5	20
m,p-Xylene	2.1	18	8.9	78
o-Xylene	1.0	4.5	4.5	19

Client Sample ID: Z2-1-202410

Lab ID#: 2410353B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.2	480	41	2400
Freon 11	8.2	14	46	81
1,1,1-Trichloroethane	8.2	18	45	100
Trichloroethene	8.2	9.9	44	53
Tetrachloroethene	8.2	2000	56	14000
m,p-Xylene	16	17	72	72

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Client Sample ID: Z6-2-202410

Lab ID#: 2410353B-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102117**	**Date of Collection:**	**10/9/24 8:48:00 AM**
Dil. Factor:	**1.95**	**Date of Analysis:**	**10/21/24 09:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.98	Not Detected	4.8	Not Detected
Freon 114	0.98	Not Detected	6.8	Not Detected
Chloromethane	9.8	Not Detected	20	Not Detected
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
1,3-Butadiene	0.98	Not Detected	2.2	Not Detected
Bromomethane	9.8	Not Detected	38	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
Freon 11	0.98	Not Detected	5.5	Not Detected
Ethanol	12	19	22	35
Freon 113	0.98	Not Detected	7.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Acetone	9.8	Not Detected	23	Not Detected
2-Propanol	3.9	Not Detected	9.6	Not Detected
Carbon Disulfide	3.9	Not Detected	12	Not Detected
3-Chloropropene	3.9	Not Detected	12	Not Detected
Methylene Chloride	9.8	Not Detected	34	Not Detected
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Hexane	0.98	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.98	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.9	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Tetrahydrofuran	0.98	Not Detected	2.9	Not Detected
Chloroform	0.98	Not Detected	4.8	Not Detected
1,1,1-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Cyclohexane	0.98	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.98	Not Detected	6.1	Not Detected
2,2,4-Trimethylpentane	0.98	Not Detected	4.6	Not Detected
Benzene	0.98	Not Detected	3.1	Not Detected
1,2-Dichloroethane	0.98	Not Detected	3.9	Not Detected
Heptane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	Not Detected	5.2	Not Detected
1,2-Dichloropropane	0.98	Not Detected	4.5	Not Detected
1,4-Dioxane	3.9	Not Detected	14	Not Detected
Bromodichloromethane	0.98	Not Detected	6.5	Not Detected
cis-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
4-Methyl-2-pentanone	0.98	Not Detected	4.0	Not Detected
Toluene	2.0	Not Detected	7.3	Not Detected
trans-1,3-Dichloropropene	0.98	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.98	Not Detected	5.3	Not Detected
Tetrachloroethene	0.98	Not Detected	6.6	Not Detected
2-Hexanone	3.9	Not Detected	16	Not Detected

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Client Sample ID: Z6-2-202410

Lab ID#: 2410353B-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102117**	**Date of Collection: 10/9/24 8:48:00 AM**	
Dil. Factor:	**1.95**	**Date of Analysis: 10/21/24 09:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.98	Not Detected	8.3	Not Detected
1,2-Dibromoethane (EDB)	0.98	Not Detected	7.5	Not Detected
Chlorobenzene	0.98	Not Detected	4.5	Not Detected
Ethyl Benzene	0.98	Not Detected	4.2	Not Detected
m,p-Xylene	2.0	Not Detected	8.5	Not Detected
o-Xylene	0.98	Not Detected	4.2	Not Detected
Styrene	0.98	Not Detected	4.2	Not Detected
Bromoform	0.98	Not Detected	10	Not Detected
Cumene	0.98	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	0.98	Not Detected	6.7	Not Detected
Propylbenzene	0.98	Not Detected	4.8	Not Detected
4-Ethyltoluene	0.98	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,2,4-Trimethylbenzene	0.98	Not Detected	4.8	Not Detected
1,3-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,4-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
alpha-Chlorotoluene	0.98	Not Detected	5.0	Not Detected
1,2-Dichlorobenzene	0.98	Not Detected	5.9	Not Detected
1,2,4-Trichlorobenzene	3.9	Not Detected	29	Not Detected
Hexachlorobutadiene	3.9	Not Detected	42	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z5-2-202410

Lab ID#: 2410353B-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102118**	**Date of Collection:**	**10/9/24 9:28:00 AM**
Dil. Factor:	**2.15**	**Date of Analysis:**	**10/21/24 10:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	24	5.3	120
Freon 114	1.1	Not Detected	7.5	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	3.7	2.7	9.6
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	190	6.0	1000
Ethanol	13	Not Detected	25	Not Detected
Freon 113	1.1	2.1	8.2	16
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	13	26	31
2-Propanol	4.3	Not Detected	10	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	1.1	5.2	5.2
1,1,1-Trichloroethane	1.1	20	5.9	110
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	230	5.8	1200
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	2.2	Not Detected	8.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	4.4	7.3	30
2-Hexanone	4.3	Not Detected	18	Not Detected

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Client Sample ID: Z5-2-202410

Lab ID#: 2410353B-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102118**	**Date of Collection: 10/9/24 9:28:00 AM**	
Dil. Factor:	**2.15**	**Date of Analysis: 10/21/24 10:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	2.2	3.5	9.3	15
o-Xylene	1.1	1.5	4.7	6.7
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	1.2	5.3	5.8
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	1.9	5.3	9.3
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z3-1-202410

Lab ID#: 2410353B-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102119**	**Date of Collection:**	**10/9/24 10:41:00 AM**
Dil. Factor:	**21.5**	**Date of Analysis:**	**10/21/24 10:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	11	Not Detected	53	Not Detected
Freon 114	11	Not Detected	75	Not Detected
Chloromethane	110	Not Detected	220	Not Detected
Vinyl Chloride	11	2300	27	5800
1,3-Butadiene	11	Not Detected	24	Not Detected
Bromomethane	110	Not Detected	420	Not Detected
Chloroethane	43	Not Detected	110	Not Detected
Freon 11	11	Not Detected	60	Not Detected
Ethanol	130	Not Detected	250	Not Detected
Freon 113	11	Not Detected	82	Not Detected
1,1-Dichloroethene	11	Not Detected	43	Not Detected
Acetone	110	Not Detected	260	Not Detected
2-Propanol	43	Not Detected	100	Not Detected
Carbon Disulfide	43	Not Detected	130	Not Detected
3-Chloropropene	43	Not Detected	130	Not Detected
Methylene Chloride	110	Not Detected	370	Not Detected
Methyl tert-butyl ether	43	Not Detected	160	Not Detected
trans-1,2-Dichloroethene	11	79	43	310
Hexane	11	11	38	39
1,1-Dichloroethane	11	65	44	260
2-Butanone (Methyl Ethyl Ketone)	43	Not Detected	130	Not Detected
cis-1,2-Dichloroethene	11	87	43	350
Tetrahydrofuran	11	Not Detected	32	Not Detected
Chloroform	11	Not Detected	52	Not Detected
1,1,1-Trichloroethane	11	Not Detected	59	Not Detected
Cyclohexane	11	Not Detected	37	Not Detected
Carbon Tetrachloride	11	Not Detected	68	Not Detected
2,2,4-Trimethylpentane	11	Not Detected	50	Not Detected
Benzene	11	Not Detected	34	Not Detected
1,2-Dichloroethane	11	Not Detected	44	Not Detected
Heptane	11	Not Detected	44	Not Detected
Trichloroethene	11	43	58	230
1,2-Dichloropropane	11	Not Detected	50	Not Detected
1,4-Dioxane	43	Not Detected	150	Not Detected
Bromodichloromethane	11	Not Detected	72	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	49	Not Detected
4-Methyl-2-pentanone	11	Not Detected	44	Not Detected
Toluene	22	Not Detected	81	Not Detected
trans-1,3-Dichloropropene	11	Not Detected	49	Not Detected
1,1,2-Trichloroethane	11	Not Detected	59	Not Detected
Tetrachloroethene	11	18	73	120
2-Hexanone	43	Not Detected	180	Not Detected

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Client Sample ID: Z3-1-202410

Lab ID#: 2410353B-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102119**	**Date of Collection:**	**10/9/24 10:41:00 AM**
Dil. Factor:	**21.5**	**Date of Analysis:**	**10/21/24 10:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	11	Not Detected	92	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	83	Not Detected
Chlorobenzene	11	Not Detected	49	Not Detected
Ethyl Benzene	11	Not Detected	47	Not Detected
m,p-Xylene	22	Not Detected	93	Not Detected
o-Xylene	11	Not Detected	47	Not Detected
Styrene	11	Not Detected	46	Not Detected
Bromoform	11	Not Detected	110	Not Detected
Cumene	11	Not Detected	53	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	74	Not Detected
Propylbenzene	11	Not Detected	53	Not Detected
4-Ethyltoluene	11	Not Detected	53	Not Detected
1,3,5-Trimethylbenzene	11	Not Detected	53	Not Detected
1,2,4-Trimethylbenzene	11	Not Detected	53	Not Detected
1,3-Dichlorobenzene	11	Not Detected	65	Not Detected
1,4-Dichlorobenzene	11	Not Detected	65	Not Detected
alpha-Chlorotoluene	11	Not Detected	56	Not Detected
1,2-Dichlorobenzene	11	Not Detected	65	Not Detected
1,2,4-Trichlorobenzene	43	Not Detected	320	Not Detected
Hexachlorobutadiene	43	Not Detected	460	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z4-1-202410

Lab ID#: 2410353B-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102120**	**Date of Collection:**	**10/9/24 11:25:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**10/21/24 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	19	2.6	48
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Freon 11	1.0	2.8	5.7	16
Ethanol	12	Not Detected	23	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	10	20	24	48
2-Propanol	4.0	Not Detected	9.9	Not Detected
Carbon Disulfide	4.0	Not Detected	12	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	1.0	4.8	4.0	19
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	2.0	4.1	8.0
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	5.4	4.0	21
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	9.4	5.5	51
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	32	5.4	170
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Toluene	2.0	Not Detected	7.6	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	7.1	6.8	48
2-Hexanone	4.0	Not Detected	16	Not Detected

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Client Sample ID: Z4-1-202410

Lab ID#: 2410353B-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102120**	**Date of Collection:**	**10/9/24 11:25:00 AM**
Dil. Factor:	**2.02**	**Date of Analysis:**	**10/21/24 11:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	2.0	Not Detected	8.8	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z5-OF-202410

Lab ID#: 2410353B-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102121**	**Date of Collection:**	**10/9/24 12:15:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**10/21/24 11:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	3.4	2.6	8.6
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Ethanol	12	22	24	41
Freon 113	1.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	10	Not Detected	24	Not Detected
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.0	1.3	4.1	5.1
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	1.5	4.1	6.0
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	13	5.5	72
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	2.1	Not Detected	7.8	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	3.4	7.0	23
2-Hexanone	4.1	Not Detected	17	Not Detected

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Client Sample ID: Z5-OF-202410

Lab ID#: 2410353B-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102121**	**Date of Collection:**	**10/9/24 12:15:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**10/21/24 11:40 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	2.1	Not Detected	8.9	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z6-1-202410

Lab ID#: 2410353B-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102122**	**Date of Collection:**	**10/9/24 12:46:00 PM**
Dil. Factor:	**19.3**	**Date of Analysis:**	**10/22/24 12:06 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.6	Not Detected	48	Not Detected
Freon 114	9.6	Not Detected	67	Not Detected
Chloromethane	96	Not Detected	200	Not Detected
Vinyl Chloride	9.6	Not Detected	25	Not Detected
1,3-Butadiene	9.6	Not Detected	21	Not Detected
Bromomethane	96	Not Detected	370	Not Detected
Chloroethane	39	Not Detected	100	Not Detected
Freon 11	9.6	Not Detected	54	Not Detected
Ethanol	120	Not Detected	220	Not Detected
Freon 113	9.6	Not Detected	74	Not Detected
1,1-Dichloroethene	9.6	Not Detected	38	Not Detected
Acetone	96	Not Detected	230	Not Detected
2-Propanol	39	Not Detected	95	Not Detected
Carbon Disulfide	39	Not Detected	120	Not Detected
3-Chloropropene	39	Not Detected	120	Not Detected
Methylene Chloride	96	Not Detected	340	Not Detected
Methyl tert-butyl ether	39	Not Detected	140	Not Detected
trans-1,2-Dichloroethene	9.6	Not Detected	38	Not Detected
Hexane	9.6	Not Detected	34	Not Detected
1,1-Dichloroethane	9.6	180	39	750
2-Butanone (Methyl Ethyl Ketone)	39	Not Detected	110	Not Detected
cis-1,2-Dichloroethene	9.6	Not Detected	38	Not Detected
Tetrahydrofuran	9.6	Not Detected	28	Not Detected
Chloroform	9.6	Not Detected	47	Not Detected
1,1,1-Trichloroethane	9.6	1800	53	10000
Cyclohexane	9.6	Not Detected	33	Not Detected
Carbon Tetrachloride	9.6	Not Detected	61	Not Detected
2,2,4-Trimethylpentane	9.6	Not Detected	45	Not Detected
Benzene	9.6	Not Detected	31	Not Detected
1,2-Dichloroethane	9.6	Not Detected	39	Not Detected
Heptane	9.6	Not Detected	40	Not Detected
Trichloroethene	9.6	31	52	160
1,2-Dichloropropane	9.6	Not Detected	44	Not Detected
1,4-Dioxane	39	Not Detected	140	Not Detected
Bromodichloromethane	9.6	Not Detected	65	Not Detected
cis-1,3-Dichloropropene	9.6	Not Detected	44	Not Detected
4-Methyl-2-pentanone	9.6	Not Detected	40	Not Detected
Toluene	19	Not Detected	73	Not Detected
trans-1,3-Dichloropropene	9.6	Not Detected	44	Not Detected
1,1,2-Trichloroethane	9.6	Not Detected	53	Not Detected
Tetrachloroethene	9.6	150	65	1000
2-Hexanone	39	Not Detected	160	Not Detected

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Client Sample ID: Z6-1-202410

Lab ID#: 2410353B-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102122**	**Date of Collection: 10/9/24 12:46:00 PM**	
Dil. Factor:	**19.3**	**Date of Analysis: 10/22/24 12:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	9.6	Not Detected	82	Not Detected
1,2-Dibromoethane (EDB)	9.6	Not Detected	74	Not Detected
Chlorobenzene	9.6	Not Detected	44	Not Detected
Ethyl Benzene	9.6	Not Detected	42	Not Detected
m,p-Xylene	19	Not Detected	84	Not Detected
o-Xylene	9.6	Not Detected	42	Not Detected
Styrene	9.6	Not Detected	41	Not Detected
Bromoform	9.6	Not Detected	100	Not Detected
Cumene	9.6	Not Detected	47	Not Detected
1,1,2,2-Tetrachloroethane	9.6	Not Detected	66	Not Detected
Propylbenzene	9.6	Not Detected	47	Not Detected
4-Ethyltoluene	9.6	Not Detected	47	Not Detected
1,3,5-Trimethylbenzene	9.6	Not Detected	47	Not Detected
1,2,4-Trimethylbenzene	9.6	Not Detected	47	Not Detected
1,3-Dichlorobenzene	9.6	Not Detected	58	Not Detected
1,4-Dichlorobenzene	9.6	Not Detected	58	Not Detected
alpha-Chlorotoluene	9.6	Not Detected	50	Not Detected
1,2-Dichlorobenzene	9.6	Not Detected	58	Not Detected
1,2,4-Trichlorobenzene	39	Not Detected	290	Not Detected
Hexachlorobutadiene	39	Not Detected	410	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z5-1-202410

Lab ID#: 2410353B-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102123**	**Date of Collection: 10/9/24 1:26:00 PM**	
Dil. Factor:	**2.10**	**Date of Analysis: 10/22/24 12:35 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.2	Not Detected
Freon 114	1.0	Not Detected	7.3	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
Vinyl Chloride	1.0	1.7	2.7	4.5
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	10	Not Detected	41	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
Freon 11	1.0	Not Detected	5.9	Not Detected
Ethanol	13	Not Detected	24	Not Detected
Freon 113	1.0	Not Detected	8.0	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.2	Not Detected
Acetone	10	13	25	30
2-Propanol	4.2	Not Detected	10	Not Detected
Carbon Disulfide	4.2	49	13	150
3-Chloropropene	4.2	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Methyl tert-butyl ether	4.2	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
Hexane	1.0	Not Detected	3.7	Not Detected
1,1-Dichloroethane	1.0	7.6	4.2	31
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.1	Not Detected
Chloroform	1.0	Not Detected	5.1	Not Detected
1,1,1-Trichloroethane	1.0	110	5.7	620
Cyclohexane	1.0	Not Detected	3.6	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.9	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	Not Detected	4.3	Not Detected
Trichloroethene	1.0	19	5.6	100
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.2	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	7.0	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.3	Not Detected
Toluene	2.1	Not Detected	7.9	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
Tetrachloroethene	1.0	62	7.1	420
2-Hexanone	4.2	Not Detected	17	Not Detected

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Client Sample ID: Z5-1-202410

Lab ID#: 2410353B-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102123**	**Date of Collection: 10/9/24 1:26:00 PM**	
Dil. Factor:	**2.10**	**Date of Analysis: 10/22/24 12:35 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.9	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.1	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
m,p-Xylene	2.1	Not Detected	9.1	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected
Styrene	1.0	Not Detected	4.5	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.2	Not Detected
Propylbenzene	1.0	Not Detected	5.2	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.2	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.3	Not Detected
1,2,4-Trichlorobenzene	4.2	Not Detected	31	Not Detected
Hexachlorobutadiene	4.2	Not Detected	45	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Z3-2-202410

Lab ID#: 2410353B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102124**	**Date of Collection: 10/9/24 2:46:00 PM**	
Dil. Factor:	**2.01**	**Date of Analysis: 10/22/24 01:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.0	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	1.6	2.6	4.0
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Bromomethane	10	Not Detected	39	Not Detected
Chloroethane	4.0	Not Detected	11	Not Detected
Freon 11	1.0	48	5.6	270
Ethanol	12	Not Detected	23	Not Detected
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	10	23	24	56
2-Propanol	4.0	Not Detected	9.9	Not Detected
Carbon Disulfide	4.0	11	12	34
3-Chloropropene	4.0	Not Detected	12	Not Detected
Methylene Chloride	10	Not Detected	35	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Hexane	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	1.8	4.1	7.3
2-Butanone (Methyl Ethyl Ketone)	4.0	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	2.4	4.9	12
1,1,1-Trichloroethane	1.0	25	5.5	140
Cyclohexane	1.0	Not Detected	3.4	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Heptane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	54	5.4	290
1,2-Dichloropropane	1.0	Not Detected	4.6	Not Detected
1,4-Dioxane	4.0	12	14	43
Bromodichloromethane	1.0	Not Detected	6.7	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Toluene	2.0	Not Detected	7.6	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	170	6.8	1100
2-Hexanone	4.0	Not Detected	16	Not Detected

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Client Sample ID: Z3-2-202410

Lab ID#: 2410353B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102124**	**Date of Collection: 10/9/24 2:46:00 PM**	
Dil. Factor:	**2.01**	**Date of Analysis: 10/22/24 01:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.7	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	1.2	4.4	5.1
m,p-Xylene	2.0	5.0	8.7	22
o-Xylene	1.0	1.4	4.4	6.2
Styrene	1.0	Not Detected	4.3	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	4.9	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	4.9	Not Detected
4-Ethyltoluene	1.0	Not Detected	4.9	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	4.9	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Z4-2-202410

Lab ID#: 2410353B-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102125**	**Date of Collection:**	**10/9/24 3:25:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**10/22/24 01:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	5.6	5.1	28
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Freon 11	1.0	150	5.8	870
Ethanol	12	Not Detected	24	Not Detected
Freon 113	1.0	3.1	7.9	24
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	10	11	24	27
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	1.1	4.2	4.3
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	12	5.6	66
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	14	5.5	75
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	2.1	Not Detected	7.8	Not Detected
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	81	7.0	550
2-Hexanone	4.1	Not Detected	17	Not Detected

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Client Sample ID: Z4-2-202410

Lab ID#: 2410353B-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102125**	**Date of Collection: 10/9/24 3:25:00 PM**	
Dil. Factor:	**2.06**	**Date of Analysis: 10/22/24 01:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	4.6	4.5	20
m,p-Xylene	2.1	18	8.9	78
o-Xylene	1.0	4.5	4.5	19
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Z2-1-202410

Lab ID#: 2410353B-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102126**	**Date of Collection: 10/9/24 4:00:00 PM**	
Dil. Factor:	**16.5**	**Date of Analysis: 10/22/24 01:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.2	480	41	2400
Freon 114	8.2	Not Detected	58	Not Detected
Chloromethane	82	Not Detected	170	Not Detected
Vinyl Chloride	8.2	Not Detected	21	Not Detected
1,3-Butadiene	8.2	Not Detected	18	Not Detected
Bromomethane	82	Not Detected	320	Not Detected
Chloroethane	33	Not Detected	87	Not Detected
Freon 11	8.2	14	46	81
Ethanol	100	Not Detected	190	Not Detected
Freon 113	8.2	Not Detected	63	Not Detected
1,1-Dichloroethene	8.2	Not Detected	33	Not Detected
Acetone	82	Not Detected	200	Not Detected
2-Propanol	33	Not Detected	81	Not Detected
Carbon Disulfide	33	Not Detected	100	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	82	Not Detected	290	Not Detected
Methyl tert-butyl ether	33	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	8.2	Not Detected	33	Not Detected
Hexane	8.2	Not Detected	29	Not Detected
1,1-Dichloroethane	8.2	Not Detected	33	Not Detected
2-Butanone (Methyl Ethyl Ketone)	33	Not Detected	97	Not Detected
cis-1,2-Dichloroethene	8.2	Not Detected	33	Not Detected
Tetrahydrofuran	8.2	Not Detected	24	Not Detected
Chloroform	8.2	Not Detected	40	Not Detected
1,1,1-Trichloroethane	8.2	18	45	100
Cyclohexane	8.2	Not Detected	28	Not Detected
Carbon Tetrachloride	8.2	Not Detected	52	Not Detected
2,2,4-Trimethylpentane	8.2	Not Detected	38	Not Detected
Benzene	8.2	Not Detected	26	Not Detected
1,2-Dichloroethane	8.2	Not Detected	33	Not Detected
Heptane	8.2	Not Detected	34	Not Detected
Trichloroethene	8.2	9.9	44	53
1,2-Dichloropropane	8.2	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.2	Not Detected	55	Not Detected
cis-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected
4-Methyl-2-pentanone	8.2	Not Detected	34	Not Detected
Toluene	16	Not Detected	62	Not Detected
trans-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected
1,1,2-Trichloroethane	8.2	Not Detected	45	Not Detected
Tetrachloroethene	8.2	2000	56	14000
2-Hexanone	33	Not Detected	140	Not Detected

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Client Sample ID: Z2-1-202410

Lab ID#: 2410353B-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102126**	**Date of Collection: 10/9/24 4:00:00 PM**	
Dil. Factor:	**16.5**	**Date of Analysis: 10/22/24 01:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	8.2	Not Detected	70	Not Detected
1,2-Dibromoethane (EDB)	8.2	Not Detected	63	Not Detected
Chlorobenzene	8.2	Not Detected	38	Not Detected
Ethyl Benzene	8.2	Not Detected	36	Not Detected
m,p-Xylene	16	17	72	72
o-Xylene	8.2	Not Detected	36	Not Detected
Styrene	8.2	Not Detected	35	Not Detected
Bromoform	8.2	Not Detected	85	Not Detected
Cumene	8.2	Not Detected	40	Not Detected
1,1,2,2-Tetrachloroethane	8.2	Not Detected	57	Not Detected
Propylbenzene	8.2	Not Detected	40	Not Detected
4-Ethyltoluene	8.2	Not Detected	40	Not Detected
1,3,5-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,2,4-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,3-Dichlorobenzene	8.2	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.2	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.2	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.2	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	240	Not Detected
Hexachlorobutadiene	33	Not Detected	350	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410353B-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102106e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	6.1	Not Detected	11	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2410353B-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102106e**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: CCV

Lab ID#: 2410353B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 10:35 AM**

Compound	%Recovery
Freon 12	100
Freon 114	101
Chloromethane	85
Vinyl Chloride	96
1,3-Butadiene	88
Bromomethane	102
Chloroethane	100
Freon 11	96
Ethanol	91
Freon 113	101
1,1-Dichloroethene	94
Acetone	97
2-Propanol	90
Carbon Disulfide	94
3-Chloropropene	96
Methylene Chloride	94
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	95
Hexane	96
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	99
Tetrahydrofuran	87
Chloroform	96
1,1,1-Trichloroethane	95
Cyclohexane	96
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	96
Benzene	97
1,2-Dichloroethane	90
Heptane	96
Trichloroethene	99
1,2-Dichloropropane	96
1,4-Dioxane	100
Bromodichloromethane	98
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	93
Toluene	101
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	103
Tetrachloroethene	103
2-Hexanone	95

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Client Sample ID: CCV

Lab ID#: 2410353B-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 10:35 AM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	101
m,p-Xylene	97
o-Xylene	99
Styrene	98
Bromoform	102
Cumene	97
1,1,2,2-Tetrachloroethane	95
Propylbenzene	95
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 2410353B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:02 AM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	103	70-130
Chloromethane	84	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	85	70-130
Bromomethane	101	70-130
Chloroethane	104	70-130
Freon 11	97	70-130
Ethanol	91	70-130
Freon 113	101	70-130
1,1-Dichloroethene	89	70-130
Acetone	93	70-130
2-Propanol	92	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	94	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	95	70-130
1,1-Dichloroethane	103	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	99	70-130
Tetrahydrofuran	86	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	97	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	97	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	101	70-130
1,2-Dichloroethane	91	70-130
Heptane	110	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	107	70-130
2-Hexanone	98	70-130

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Client Sample ID: LCS

Lab ID#: 2410353B-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:02 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	101	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	105	70-130
m,p-Xylene	102	70-130
o-Xylene	103	70-130
Styrene	101	70-130
Bromoform	105	70-130
Cumene	99	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	99	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	110	70-130
Hexachlorobutadiene	110	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 2410353B-14AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:28 AM**	

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	102	70-130
Chloromethane	84	70-130
Vinyl Chloride	91	70-130
1,3-Butadiene	88	70-130
Bromomethane	102	70-130
Chloroethane	95	70-130
Freon 11	97	70-130
Ethanol	91	70-130
Freon 113	100	70-130
1,1-Dichloroethene	91	70-130
Acetone	95	70-130
2-Propanol	95	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	94	70-130
Methylene Chloride	91	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	96	70-130
Hexane	94	70-130
1,1-Dichloroethane	92	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	98	70-130
Tetrahydrofuran	83	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	98	70-130
2,2,4-Trimethylpentane	96	70-130
Benzene	101	70-130
1,2-Dichloroethane	90	70-130
Heptane	96	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	99	70-130
Bromodichloromethane	96	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	106	70-130
2-Hexanone	99	70-130

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Client Sample ID: LCSD

Lab ID#: 2410353B-14AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17102105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/21/24 11:28 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	103	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	101	70-130
o-Xylene	102	70-130
Styrene	103	70-130
Bromoform	106	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Propylbenzene	100	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	128	70-130
Hexachlorobutadiene	123	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	101	70-130

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Method : TO-15

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.50
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	5.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	2.0
75-09-2	Methylene Chloride	5.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.50
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.50
107-06-2	1,2-Dichloroethane	0.50
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	2.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.50
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.50

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Method : TO-15

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2410353

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

page ____ of ____

Client: Ramboll
Site Name: Whirlpool
Project Manager: Will Campbell
Sampler: GP / JK

Project Name: Whirlpool Annual
Project #: 1940108132
PO#:

Turnaround Time (Specify Below)
Standard X Rush ____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy): 11
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Requested Analyses: TO-15/SIM	Requested Analyses: TO-15	Canister Vacuum/Pressure: Initial (in Hg)	Canister Vacuum/Pressure: Final (in Hg)	Lab Use Only: Receipt (in Hg)	Lab Use Only: Final (in psi) Gas: N2 / He
~~01A~~	~~Z1-1-IA-202410~~	~~6L2795~~	~~22568~~	~~10/8~~	~~1003~~	~~10/8~~	~~1737~~	X		~~-30~~	~~-7~~		
01A	Z6-2-202410	1L1713	23196	10/8	0822	10/9	0848		X	-30	-5		
02A	Z5-2-202410	1L4305	24748	10/9	0908	10/9	0928		X	-30	-5		
03A	AA-2-2024	6L0868	26141	10/9	0949	10/9	1700	X		-27	-7		
04A	Z3-1-202410	1L3934	25212	10/9	1022	10/9	1041		X	-27	-5		
05A	Z4-1-202410	1L4762	23154	10/9	1101	10/9	1125		X	-30	-5		
06A	Z5-OF-202410	1L2030	23185	10/9	1153	10/9	1215		X	-29	-5		
07A	Z6-1-202410	1L2281	27037	10/9	1230	10/9	1246		X	-27	-4		
08A	Z5-1-202410	1L4065	23608	10/9	1302	10/9	1326		X	-29	-5		
09A	Z3-2-202410	1L1540	23937	10/9	1423	10/9	1446		X	-29	-5		
10A	Z4-2-202410	1L4536	24024	10/9	1503	10/9	1525		X	-30	-5		
11A	Z2-1-202410	1L1869	24804	10/9	1538	10/9	1600		X	-27	-5		

Special Instructions/Notes:
DO NOT ANAYLZE Z1-1-202410

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Jocelyn Keller	10/9/24	1700	Mark Sanders FedEx	10/10/24	9:43
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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10/31/2024
Mr. David Meyer
Ramboll
82 Corporate Woods
10851 Mastin Blvd., Suite 100
Overland Park KS 66210

Project Name: Whirlpool Annual
Project #: 1940108132
Workorder #: 2410452

Dear Mr. David Meyer

The following report includes the data for the above referenced project for sample(s) received on 10/15/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2410452

Work Order Summary

CLIENT:	Mr. David Meyer Ramboll 82 Corporate Woods 10851 Mastin Blvd., Suite 100 Overland Park, KS 66210	**BILL TO:**	Accounts Payable Ramboll 10150 Highland Manor Drive Suite 440 Tampa, FL 33610
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	1940108132 Whirlpool Annual
DATE RECEIVED:	10/15/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/31/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Z5-2-IA-202410-2	Modified TO-15	10.0 "Hg	2psi
01B	Z5-2-IA-202410-2	Modified TO-15	10.0 "Hg	2psi
02A	Lab Blank	Modified TO-15	NA	NA
02B	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
03B	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA
04B	LCS	Modified TO-15	NA	NA
04BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/31/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Ramboll
Workorder# 2410452

One 6 Liter Summa Canister (100% SIM Ambient) sample was received on October 15, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody was missing method assignment in the 'Requested Analyses' checkbox for the associated sample. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

The presence of a closely eluting non-target peak in sample Z5-2-IA-202410-2 is interfering

with the quantitation mass ion for 4-Ethyltoluene. The reported 4-Ethyltoluene concentration is flagged with a "CN" flag to indicate a high bias due to matrix contribution.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: Z5-2-IA-202410-2

Lab ID#: 2410452-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.17	0.21	0.96	1.2
Ethanol	3.4	4.4	6.4	8.4
Acetone	3.4	16	8.1	38
2-Butanone (Methyl Ethyl Ketone)	0.85	1.6	2.5	4.9
Heptane	0.85	1.4	3.5	5.9
Styrene	0.17	0.36	0.72	1.5
4-Ethyltoluene	0.17	0.17 CN	0.84	0.84 CN
1,2,4-Trimethylbenzene	0.17	0.29	0.84	1.4

Client Sample ID: Z5-2-IA-202410-2

Lab ID#: 2410452-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.085	0.39	0.42	1.9
Chloroform	0.034	0.18	0.17	0.90
Carbon Tetrachloride	0.034	0.054	0.21	0.34
Benzene	0.085	0.18	0.27	0.57
Trichloroethene	0.034	0.31	0.18	1.7
Toluene	0.085	7.1	0.32	27
Ethyl Benzene	0.034	3.8	0.15	16
m,p-Xylene	0.068	13	0.30	58
o-Xylene	0.034	3.6	0.15	16

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Client Sample ID: Z5-2-IA-202410-2

Lab ID#: 2410452-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103007**	**Date of Collection: 10/11/24 2:30:00 PM**	
Dil. Factor:	**1.70**	**Date of Analysis: 10/30/24 04:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	8.5	Not Detected	33	Not Detected
Freon 11	0.17	0.21	0.96	1.2
Ethanol	3.4	4.4	6.4	8.4
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	3.4	16	8.1	38
2-Propanol	3.4	Not Detected	8.4	Not Detected
Carbon Disulfide	0.85	Not Detected	2.6	Not Detected
3-Chloropropene	0.85	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.85	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.85	1.6	2.5	4.9
Tetrahydrofuran	0.85	Not Detected	2.5	Not Detected
Cyclohexane	0.85	Not Detected	2.9	Not Detected
2,2,4-Trimethylpentane	0.85	Not Detected	4.0	Not Detected
Heptane	0.85	1.4	3.5	5.9
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.61	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
2-Hexanone	0.85	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
Chlorobenzene	0.17	Not Detected	0.78	Not Detected
Styrene	0.17	0.36	0.72	1.5
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	0.17 CN	0.84	0.84 CN
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	0.29	0.84	1.4
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.85	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.85	Not Detected	9.1	Not Detected

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: Z5-2-IA-202410-2

Lab ID#: 2410452-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103007**	**Date of Collection:**	**10/11/24 2:30:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**10/30/24 04:11 PM**

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Z5-2-IA-202410-2

Lab ID#: 2410452-01B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103007sim**	**Date of Collection:**	**10/11/24 2:30:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**10/30/24 04:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.085	0.39	0.42	1.9
Freon 114	0.034	Not Detected	0.24	Not Detected
Chloromethane	0.85	Not Detected	1.8	Not Detected
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Chloroethane	0.085	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	0.18	0.17	0.90
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.054	0.21	0.34
Benzene	0.085	0.18	0.27	0.57
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	0.31	0.18	1.7
Toluene	0.085	7.1	0.32	27
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	3.8	0.15	16
m,p-Xylene	0.068	13	0.30	58
o-Xylene	0.034	3.6	0.15	16
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410452-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 02:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410452-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 02:31 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2410452-02B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103006sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 02:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.050	Not Detected	0.25	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: CCV

Lab ID#: 2410452-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 11:31 AM**

Compound	%Recovery
1,3-Butadiene	86
Bromomethane	97
Freon 11	88
Ethanol	76
Freon 113	94
Acetone	84
2-Propanol	89
Carbon Disulfide	94
3-Chloropropene	93
Methylene Chloride	93
Hexane	88
2-Butanone (Methyl Ethyl Ketone)	95
Tetrahydrofuran	88
Cyclohexane	92
2,2,4-Trimethylpentane	86
Heptane	93
1,2-Dichloropropane	95
1,4-Dioxane	102
Bromodichloromethane	92
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	94
trans-1,3-Dichloropropene	97
2-Hexanone	91
Dibromochloromethane	92
Chlorobenzene	94
Styrene	96
Bromoform	89
Cumene	94
Propylbenzene	93
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	94
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130

Client Sample ID: CCV

Lab ID#: 2410452-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 11:31 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: CCV

Lab ID#: 2410452-03B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103002sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 11:31 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	92
Chloromethane	79
Vinyl Chloride	87
Chloroethane	82
1,1-Dichloroethene	84
trans-1,2-Dichloroethene	88
Methyl tert-butyl ether	84
1,1-Dichloroethane	84
cis-1,2-Dichloroethene	88
Chloroform	89
1,1,1-Trichloroethane	86
Carbon Tetrachloride	105
Benzene	89
1,2-Dichloroethane	94
Trichloroethene	97
Toluene	88
1,1,2-Trichloroethane	91
Tetrachloroethene	92
1,2-Dibromoethane (EDB)	90
Ethyl Benzene	89
m,p-Xylene	88
o-Xylene	86
1,1,2,2-Tetrachloroethane	76
1,4-Dichlorobenzene	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 2410452-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:18 PM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	94	70-130
Bromomethane	83	70-130
Freon 11	98	70-130
Ethanol	72	70-130
Freon 113	102	70-130
Acetone	91	70-130
2-Propanol	108	70-130
Carbon Disulfide	104	70-130
3-Chloropropene	102	70-130
Methylene Chloride	100	70-130
Hexane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
Tetrahydrofuran	96	70-130
Cyclohexane	100	70-130
2,2,4-Trimethylpentane	92	70-130
Heptane	100	70-130
1,2-Dichloropropane	102	70-130
1,4-Dioxane	107	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	106	70-130
4-Methyl-2-pentanone	102	70-130
trans-1,3-Dichloropropene	107	70-130
2-Hexanone	101	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	102	70-130
Styrene	107	70-130
Bromoform	99	70-130
Cumene	100	70-130
Propylbenzene	101	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	124	70-130
Hexachlorobutadiene	110	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130

Client Sample ID: LCS

Lab ID#: 2410452-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:18 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCSD

Lab ID#: 2410452-04AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:56 PM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	96	70-130
Bromomethane	92	70-130
Freon 11	98	70-130
Ethanol	67 Q	70-130
Freon 113	102	70-130
Acetone	91	70-130
2-Propanol	110	70-130
Carbon Disulfide	104	70-130
3-Chloropropene	102	70-130
Methylene Chloride	102	70-130
Hexane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
Tetrahydrofuran	99	70-130
Cyclohexane	100	70-130
2,2,4-Trimethylpentane	94	70-130
Heptane	100	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	108	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	104	70-130
trans-1,3-Dichloropropene	106	70-130
2-Hexanone	102	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	101	70-130
Styrene	106	70-130
Bromoform	98	70-130
Cumene	100	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	99	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	117	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	126	70-130
Hexachlorobutadiene	112	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: LCSD

Lab ID#: 2410452-04AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:56 PM**	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCS

Lab ID#: 2410452-04B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103003sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:18 PM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	100	70-130
Chloromethane	86	70-130
Vinyl Chloride	96	70-130
Chloroethane	90	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	96	70-130
Methyl tert-butyl ether	91	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	114	60-140
Benzene	98	70-130
1,2-Dichloroethane	102	70-130
Trichloroethene	104	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	100	70-130
1,2-Dibromoethane (EDB)	98	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	96	70-130
o-Xylene	94	70-130
1,1,2,2-Tetrachloroethane	83	70-130
1,4-Dichlorobenzene	91	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: LCSD

Lab ID#: 2410452-04BB

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22103004sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/30/24 12:56 PM**	

Compound	%Recovery	Method Limits
Freon 12	100	70-130
Freon 114	100	70-130
Chloromethane	85	70-130
Vinyl Chloride	95	70-130
Chloroethane	90	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	96	70-130
Methyl tert-butyl ether	90	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	94	70-130
Carbon Tetrachloride	113	60-140
Benzene	98	70-130
1,2-Dichloroethane	103	70-130
Trichloroethene	103	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	98	70-130
1,2-Dibromoethane (EDB)	98	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	95	70-130
o-Xylene	93	70-130
1,1,2,2-Tetrachloroethane	83	70-130
1,4-Dichlorobenzene	90	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	109	70-130

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.050
76-14-2	Freon 114	0.020
74-87-3	Chloromethane	0.50
75-01-4	Vinyl Chloride	0.010
75-00-3	Chloroethane	0.050
75-35-4	1,1-Dichloroethene	0.010
156-60-5	trans-1,2-Dichloroethene	0.10
1634-04-4	Methyl tert-butyl ether	0.10
75-34-3	1,1-Dichloroethane	0.020
156-59-2	cis-1,2-Dichloroethene	0.020
67-66-3	Chloroform	0.020
71-55-6	1,1,1-Trichloroethane	0.020
56-23-5	Carbon Tetrachloride	0.020
71-43-2	Benzene	0.050
107-06-2	1,2-Dichloroethane	0.020
79-01-6	Trichloroethene	0.020
108-88-3	Toluene	0.050
79-00-5	1,1,2-Trichloroethane	0.020
127-18-4	Tetrachloroethene	0.020
106-93-4	1,2-Dibromoethane (EDB)	0.020
100-41-4	Ethyl Benzene	0.020
108-38-3	m,p-Xylene	0.040
95-47-6	o-Xylene	0.020
79-34-5	1,1,2,2-Tetrachloroethane	0.020
106-46-7	1,4-Dichlorobenzene	0.020
106-99-0	1,3-Butadiene	0.10
74-83-9	Bromomethane	5.0
75-69-4	Freon 11	0.10
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.10
67-64-1	Acetone	2.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	0.50
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	0.20
110-54-3	Hexane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50
109-99-9	Tetrahydrofuran	0.50
110-82-7	Cyclohexane	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
142-82-5	Heptane	0.50
78-87-5	1,2-Dichloropropane	0.10
123-91-1	1,4-Dioxane	0.10
75-27-4	Bromodichloromethane	0.10

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Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
10061-01-5	cis-1,3-Dichloropropene	0.10
108-10-1	4-Methyl-2-pentanone	0.10
10061-02-6	trans-1,3-Dichloropropene	0.10
591-78-6	2-Hexanone	0.50
124-48-1	Dibromochloromethane	0.10
108-90-7	Chlorobenzene	0.10
100-42-5	Styrene	0.10
75-25-2	Bromoform	0.10
98-82-8	Cumene	0.10
103-65-1	Propylbenzene	0.10
622-96-8	4-Ethyltoluene	0.10
108-67-8	1,3,5-Trimethylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
541-73-1	1,3-Dichlorobenzene	0.10
100-44-7	alpha-Chlorotoluene	0.10
95-50-1	1,2-Dichlorobenzene	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50
87-68-3	Hexachlorobutadiene	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	**4-Bromofluorobenzene**	**70-130**

Analysis Request / Canister Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2410452

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: Ramboll
Site Name: Whirlpool
Project Manager: Will Campbell
Sampler: GP/JK

Project Name: Whirlpool Annual
Project #: 1940109132
PO#:

Turnaround Time (Specify Below)
Standard X Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Requested Analyses	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt (in "Hg)	Lab Use Only Final (in psi) Gas: N2 / He
01A	Z5-2-IA-202410-2	6L3695	27357	10/11	0815	10/11	1430	TO-15 SIM	-28	-9		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Joshua Rokkey	10/11/24	1540	Armin D-GATZ	10/25/24	1159
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? Yes No (None) | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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1 2 3 4 5 6 7 8 9 10 11 12 13

ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
7500 College Boulevard
Suite 925
Overland Park, Kansas 66210

Generated 10/22/2024 11:38:39 AM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-256885-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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 Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256885-1	MW-39R-202410	Water	10/07/24 15:10	10/09/24 09:53
680-256885-2	ITMW-20-202410	Water	10/07/24 16:40	10/09/24 09:53
680-256885-3	MW-29-202410	Water	10/07/24 16:18	10/09/24 09:53
680-256885-4	MW-200-202410	Water	10/07/24 17:20	10/09/24 09:53
680-256885-5	TMW-20-202410	Water	10/07/24 17:32	10/09/24 09:53
680-256885-6	MW-211-202410	Water	10/07/24 17:50	10/09/24 09:53
680-256885-7	MW-97-202410	Water	10/07/24 18:29	10/09/24 09:53
680-256885-8	MW-207-202410	Water	10/07/24 18:00	10/09/24 09:53
680-256885-9	MW-26-202410	Water	10/08/24 09:00	10/09/24 09:53
680-256885-10	TMW-29-202410	Water	10/08/24 08:50	10/09/24 09:53
680-256885-11	TMW-35-202410	Water	10/08/24 09:05	10/09/24 09:53
680-256885-12	MW-208-202410	Water	10/08/24 09:50	10/09/24 09:53
680-256885-13	MW-22-202410	Water	10/08/24 10:10	10/09/24 09:53
680-256885-14	MW-60R-202410	Water	10/08/24 10:05	10/09/24 09:53
680-256885-15	MW-98-202410	Water	10/08/24 11:30	10/09/24 09:53
680-256885-16	MW-209-202410	Water	10/08/24 11:50	10/09/24 09:53
680-256885-17	TMW-36B-202410	Water	10/08/24 10:50	10/09/24 09:53
680-256885-18	MW-195-202410	Water	10/08/24 11:55	10/09/24 09:53
680-256885-19	DUP-05-202410	Water	10/08/24 12:00	10/09/24 09:53
680-256885-20	ITMW-2R-202410	Water	10/08/24 12:50	10/09/24 09:53
680-256885-21	TMW-14-202410	Water	10/08/24 13:50	10/09/24 09:53
680-256885-22	DUP-04-202410	Water	10/08/24 09:05	10/09/24 09:53
680-256885-23	DUP-01-202410	Water	10/07/24 16:40	10/09/24 09:53
680-256885-24	MW-184-202410	Water	10/08/24 13:12	10/09/24 09:53
680-256885-25	DUP-02-202410	Water	10/08/24 13:15	10/09/24 09:53
680-256885-26	MW-28-202410	Water	10/08/24 13:30	10/09/24 09:53
680-256885-27	MW-212-202410	Water	10/08/24 13:50	10/09/24 09:53
680-256885-28	MW-27-202410	Water	10/08/24 15:30	10/09/24 09:53
680-256885-29	MW-206-202410	Water	10/08/24 15:40	10/09/24 09:53
680-256885-30	MW-203-202410	Water	10/08/24 15:15	10/09/24 09:53
680-256885-31	TMW-36-202410	Water	10/08/24 12:40	10/09/24 09:53
680-256885-32	MW-62R-202410	Water	10/07/24 16:20	10/09/24 09:53
680-256885-33	TMW-19-202410	Water	10/08/24 14:50	10/09/24 09:53
680-256885-34	EB-01-202410	Water	10/07/24 17:00	10/09/24 09:53
680-256885-35	EB-02-202410	Water	10/08/24 17:00	10/09/24 09:53
680-256885-36	TB-01-202410	Water	10/07/24 08:00	10/09/24 09:53
680-256885-37	TB-02-202410	Water	10/08/24 08:00	10/09/24 09:53
680-256885-38	ITMW-7-202410	Water	10/08/24 17:05	10/09/24 09:53

Job ID: 680-256885-1 Eurofins Savannah

Job Narrative
680-256885-1

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.

Receipt
The samples were received on 10/9/2024 9:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.3°C and 4.7°C.

GC/MS VOA
Method 8260D: The following volatile samples had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): MW-27-202410 (680-256885-28) and ITMW-7-202410 (680-256885-38).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-859661 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: MW-60R-202410 (680-256885-14[MS]). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-859668 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-859668 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC VOA
Method RSK_175: The following sample was diluted to bring the concentration of target analytes within the calibration range: TMW-36-202410 (680-256885-31). Elevated reporting limits (RLs) are provided.

Method RSK_175: The following sample had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): MW-27-202410 (680-256885-28).

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

HPLC/IC
Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 680-859935 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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

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

General Chemistry
Method 353.2_Nitrite: The following sample(s) was analyzed approximately 90 minutes outside the holding time of 48 hours due to lab oversight on the initial login: TMW-36-202410 (680-256885-31).

Job ID: 680-256885-1 (Continued) Eurofins Savannah

Method 353.2_Nitrite: The instrument blank for analytical batches 680-858664, 680-858740 and 680-859094 contained Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because result is less than 1/2 the reporting limit (RL). The data have been qualified and reported.

Method 353.2_Nitrite: The method blank for analytical batches 680-858664, 680-858740 and 680-859094 contained Nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-858740 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2_Pres: Nitrite as N results are greater than Nitrate-Nitrite as N results for the following sample: MW-27-202410 (680-256885-28).

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Client Sample ID: MW-39R-202410 — Lab Sample ID: 680-256885-1

No Detections.

Client Sample ID: ITMW-20-202410 — Lab Sample ID: 680-256885-2

No Detections.

Client Sample ID: MW-29-202410 — Lab Sample ID: 680-256885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.2		1.0	0.15	ug/L	1		8260D	Total/NA

Client Sample ID: MW-200-202410 — Lab Sample ID: 680-256885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	38		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-20-202410 — Lab Sample ID: 680-256885-5

No Detections.

Client Sample ID: MW-211-202410 — Lab Sample ID: 680-256885-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.6		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	35		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-97-202410 — Lab Sample ID: 680-256885-7

No Detections.

Client Sample ID: MW-207-202410 — Lab Sample ID: 680-256885-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.41	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.1		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	26		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-26-202410 — Lab Sample ID: 680-256885-9

No Detections.

Client Sample ID: TMW-29-202410 — Lab Sample ID: 680-256885-10

No Detections.

Client Sample ID: TMW-35-202410 — Lab Sample ID: 680-256885-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.9		1.0	0.15	ug/L	1		8260D	Total/NA

Client Sample ID: MW-208-202410 — Lab Sample ID: 680-256885-12

No Detections.

Client Sample ID: MW-22-202410 — Lab Sample ID: 680-256885-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256885-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-60R-202410 — Lab Sample ID: 680-256885-14

No Detections.

Client Sample ID: MW-98-202410 — Lab Sample ID: 680-256885-15

No Detections.

Client Sample ID: MW-209-202410 — Lab Sample ID: 680-256885-16

No Detections.

Client Sample ID: TMW-36B-202410 — Lab Sample ID: 680-256885-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	920		1.0	0.50	ug/L	1		RSK-175	Total/NA
Chloride	490		25	10	mg/L	50		300.0-1993 R2.1	Total/NA
Iron	3.1		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.61		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.053	J B F1	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.7		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.56		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	0.10		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	3.0	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	2.6		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-195-202410 — Lab Sample ID: 680-256885-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.8		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-05-202410 — Lab Sample ID: 680-256885-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.8		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: ITMW-2R-202410 — Lab Sample ID: 680-256885-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.4		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-14-202410 — Lab Sample ID: 680-256885-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.2	J	10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.3		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	4.4		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.8		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-04-202410 — Lab Sample ID: 680-256885-22

No Detections.

Client Sample ID: DUP-01-202410 — Lab Sample ID: 680-256885-23

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256885-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-184-202410 — Lab Sample ID: 680-256885-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.2		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-02-202410 — Lab Sample ID: 680-256885-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.1		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-28-202410 — Lab Sample ID: 680-256885-26

No Detections.

Client Sample ID: MW-212-202410 — Lab Sample ID: 680-256885-27

No Detections.

Client Sample ID: MW-27-202410 — Lab Sample ID: 680-256885-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		10	3.7	ug/L	1		8260D	Total/NA
Benzene	0.27	J	1.0	0.27	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.64	J	1.0	0.20	ug/L	1		8260D	Total/NA
Ethylene	1.2	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane - DL	12000		250	150	ug/L	50		RSK-175	Total/NA
Iron	42		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.030	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.10	B	0.10	0.010	mg/L	1		353.2	Total/NA
Ferric Iron	42		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.22	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-206-202410 — Lab Sample ID: 680-256885-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.77	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	7.9		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-203-202410 — Lab Sample ID: 680-256885-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.2		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.64	J	1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene - DL	290		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: TMW-36-202410 — Lab Sample ID: 680-256885-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	51		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.36	J	1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	75		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	11000		5.0	2.5	ug/L	5		RSK-175	Total/NA
Chloride	180		10	4.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	4.5		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	1.8		1.0	0.10	mg/L	10		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TMW-36-202410 (Continued) — Lab Sample ID: 680-256885-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrite as N	0.062	J H B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	1.7		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	3.9		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.65	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	3.0		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-62R-202410 — Lab Sample ID: 680-256885-32

No Detections.

Client Sample ID: TMW-19-202410 — Lab Sample ID: 680-256885-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	78		1.0	0.20	ug/L	1		8260D	Total/NA
Chloride	130		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	18		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	0.066	J	0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	23		5.0	0.50	mg/L	50		353.2	Total/NA
Nitrite as N	0.037	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	23		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Dissolved Organic Carbon	1.2		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: EB-01-202410 — Lab Sample ID: 680-256885-34

No Detections.

Client Sample ID: EB-02-202410 — Lab Sample ID: 680-256885-35

No Detections.

Client Sample ID: TB-01-202410 — Lab Sample ID: 680-256885-36

No Detections.

Client Sample ID: TB-02-202410 — Lab Sample ID: 680-256885-37

No Detections.

Client Sample ID: ITMW-7-202410 — Lab Sample ID: 680-256885-38

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-39R-202410

Lab Sample ID: 680-256885-1

Date Collected: 10/07/24 15:10

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:03	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:03	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:03	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:03	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:03	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:03	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:03	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:03	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:03	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:03	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:03	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:03	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:03	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:03	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:03	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:03	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:03	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:03	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:03	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:03	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:03	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:03	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:03	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:03	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:03	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:03	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/16/24 16:03*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/16/24 16:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/16/24 16:03*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/16/24 16:03*	*1*

Client Sample ID: ITMW-20-202410

Lab Sample ID: 680-256885-2

Date Collected: 10/07/24 16:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:25	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:25	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:25	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:25	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:25	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:25	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:25	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:25	1

Client Sample ID: ITMW-20-202410

Lab Sample ID: 680-256885-2

Date Collected: 10/07/24 16:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:25	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:25	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:25	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:25	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:25	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:25	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:25	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:25	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:25	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:25	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:25	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:25	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:25	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:25	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:25	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:25	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:25	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:25	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:25	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/16/24 16:25*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/16/24 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/16/24 16:25*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/16/24 16:25*	*1*

Client Sample ID: MW-29-202410

Lab Sample ID: 680-256885-3

Date Collected: 10/07/24 16:18

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:48	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:48	1
Bromochloromethane	<0.34	F1	1.0	0.34	ug/L			10/16/24 16:48	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:48	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:48	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:48	1
Chlorobenzene	**4.2**		1.0	0.15	ug/L			10/16/24 16:48	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:48	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:48	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:48	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:48	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:48	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:48	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:48	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:48	1
1,1-Dichloroethene	<0.33	F1	1.0	0.33	ug/L			10/16/24 16:48	1

Client Sample ID: MW-29-202410

Lab Sample ID: 680-256885-3

Date Collected: 10/07/24 16:18

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:48	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:48	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:48	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:48	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:48	1
trans-1,2-Dichloroethene	<0.34	F1	1.0	0.34	ug/L			10/16/24 16:48	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:48	1
1,1,1-Trichloroethane	<0.21	F1	1.0	0.21	ug/L			10/16/24 16:48	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:48	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:48	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:48	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/16/24 16:48*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/16/24 16:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/16/24 16:48*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/16/24 16:48*	*1*

Client Sample ID: MW-200-202410

Lab Sample ID: 680-256885-4

Date Collected: 10/07/24 17:20

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 18:36	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 18:36	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 18:36	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 18:36	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 18:36	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 18:36	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 18:36	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 18:36	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 18:36	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 18:36	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.25	ug/L			10/16/24 18:36	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 18:36	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 18:36	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 18:36	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 18:36	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 18:36	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 18:36	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 18:36	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 18:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 18:36	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 18:36	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 18:36	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 18:36	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 18:36	1

Client Sample ID: MW-200-202410

Lab Sample ID: 680-256885-4

Date Collected: 10/07/24 17:20

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 18:36	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 18:36	1
Trichloroethene	38		1.0	0.20	ug/L			10/16/24 18:36	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 18:36	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/16/24 18:36*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/16/24 18:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/24 18:36*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/16/24 18:36*	*1*

Client Sample ID: TMW-20-202410

Lab Sample ID: 680-256885-5

Date Collected: 10/07/24 17:32

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 14:19	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 14:19	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 14:19	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 14:19	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 14:19	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 14:19	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 14:19	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 14:19	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 14:19	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 14:19	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 14:19	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 14:19	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 14:19	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 14:19	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 14:19	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 14:19	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 14:19	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 14:19	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 14:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 14:19	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 14:19	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 14:19	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 14:19	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 14:19	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 14:19	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 14:19	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 14:19	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 14:19	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/16/24 14:19*	*1*

Client Sample ID: TMW-20-202410

Lab Sample ID: 680-256885-5

Date Collected: 10/07/24 17:32

Matrix: Water

Date Received: 10/09/24 09:53

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/16/24 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/16/24 14:19*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/16/24 14:19*	*1*

Client Sample ID: MW-211-202410

Lab Sample ID: 680-256885-6

Date Collected: 10/07/24 17:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 14:41	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 14:41	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 14:41	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 14:41	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 14:41	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 14:41	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 14:41	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 14:41	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 14:41	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 14:41	1
cis-1,2-Dichloroethene	**5.6**		1.0	0.25	ug/L			10/16/24 14:41	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 14:41	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 14:41	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 14:41	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 14:41	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 14:41	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 14:41	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 14:41	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 14:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 14:41	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 14:41	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 14:41	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 14:41	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 14:41	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 14:41	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 14:41	1
Trichloroethene	**35**		1.0	0.20	ug/L			10/16/24 14:41	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 14:41	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/16/24 14:41*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/16/24 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/16/24 14:41*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/16/24 14:41*	*1*

Client Sample ID: MW-97-202410

Lab Sample ID: 680-256885-7

Date Collected: 10/07/24 18:29

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 15:02	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 15:02	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 15:02	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 15:02	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 15:02	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 15:02	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 15:02	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 15:02	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 15:02	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 15:02	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 15:02	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 15:02	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 15:02	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 15:02	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 15:02	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 15:02	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 15:02	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 15:02	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 15:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 15:02	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 15:02	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 15:02	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 15:02	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 15:02	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 15:02	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 15:02	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 15:02	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 15:02	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/24 15:02*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/16/24 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/16/24 15:02*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/16/24 15:02*	*1*

Client Sample ID: MW-207-202410

Lab Sample ID: 680-256885-8

Date Collected: 10/07/24 18:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 15:23	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 15:23	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 15:23	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 15:23	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 15:23	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 15:23	1
Chlorobenzene	**0.41**	**J**	1.0	0.15	ug/L			10/16/24 15:23	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 15:23	1

Client Sample ID: MW-207-202410

Lab Sample ID: 680-256885-8

Date Collected: 10/07/24 18:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 15:23	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 15:23	1
cis-1,2-Dichloroethene	**4.1**		1.0	0.25	ug/L			10/16/24 15:23	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 15:23	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 15:23	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 15:23	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 15:23	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 15:23	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 15:23	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 15:23	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 15:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 15:23	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 15:23	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 15:23	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 15:23	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 15:23	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 15:23	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 15:23	1
Trichloroethene	**26**		1.0	0.20	ug/L			10/16/24 15:23	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 15:23	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/16/24 15:23*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/16/24 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/16/24 15:23*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 15:23*	*1*

Client Sample ID: MW-26-202410

Lab Sample ID: 680-256885-9

Date Collected: 10/08/24 09:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 15:45	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 15:45	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 15:45	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 15:45	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 15:45	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 15:45	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 15:45	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 15:45	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 15:45	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 15:45	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 15:45	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 15:45	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 15:45	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 15:45	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 15:45	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 15:45	1

Client Sample ID: MW-26-202410

Lab Sample ID: 680-256885-9

Date Collected: 10/08/24 09:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 15:45	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 15:45	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 15:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 15:45	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 15:45	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 15:45	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 15:45	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 15:45	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 15:45	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 15:45	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 15:45	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 15:45	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/16/24 15:45*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/16/24 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/16/24 15:45*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 15:45*	*1*

Client Sample ID: TMW-29-202410

Lab Sample ID: 680-256885-10

Date Collected: 10/08/24 08:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:06	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:06	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:06	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:06	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:06	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:06	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:06	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:06	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:06	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:06	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:06	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:06	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:06	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:06	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:06	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:06	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:06	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:06	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:06	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:06	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:06	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:06	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:06	1

Client Sample ID: TMW-29-202410

Lab Sample ID: 680-256885-10

Date Collected: 10/08/24 08:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:06	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:06	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:06	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:06	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/16/24 16:06*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/16/24 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/16/24 16:06*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 16:06*	*1*

Client Sample ID: TMW-35-202410

Lab Sample ID: 680-256885-11

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 19:52	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 19:52	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 19:52	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 19:52	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 19:52	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 19:52	1
Chlorobenzene	**1.9**		1.0	0.15	ug/L			10/16/24 19:52	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 19:52	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 19:52	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 19:52	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 19:52	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 19:52	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 19:52	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 19:52	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 19:52	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 19:52	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 19:52	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 19:52	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 19:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 19:52	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 19:52	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 19:52	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 19:52	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 19:52	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 19:52	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 19:52	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 19:52	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 19:52	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/16/24 19:52*	*1*

Client Sample ID: TMW-35-202410

Lab Sample ID: 680-256885-11

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/16/24 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/16/24 19:52*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/16/24 19:52*	*1*

Client Sample ID: MW-208-202410

Lab Sample ID: 680-256885-12

Date Collected: 10/08/24 09:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 14:54	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 14:54	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 14:54	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 14:54	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 14:54	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 14:54	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 14:54	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 14:54	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 14:54	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 14:54	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 14:54	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 14:54	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 14:54	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 14:54	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 14:54	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 14:54	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 14:54	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 14:54	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 14:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 14:54	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 14:54	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 14:54	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 14:54	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 14:54	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 14:54	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 14:54	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 14:54	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 14:54	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/17/24 14:54*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/17/24 14:54*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/17/24 14:54*	*1*

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Client Sample ID: MW-22-202410

Lab Sample ID: 680-256885-13

Date Collected: 10/08/24 10:10
Date Received: 10/09/24 09:53

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 15:15	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 15:15	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 15:15	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 15:15	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 15:15	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 15:15	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 15:15	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 15:15	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 15:15	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 15:15	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 15:15	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 15:15	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 15:15	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 15:15	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 15:15	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 15:15	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 15:15	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 15:15	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 15:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 15:15	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 15:15	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 15:15	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 15:15	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 15:15	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 15:15	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 15:15	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 15:15	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 15:15	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/17/24 15:15*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/24 15:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/24 15:15*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/17/24 15:15*	*1*

Client Sample ID: MW-60R-202410

Lab Sample ID: 680-256885-14

Date Collected: 10/08/24 10:05
Date Received: 10/09/24 09:53

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7	F1 F2	10	3.7	ug/L			10/16/24 16:28	1
Benzene	<0.27	F1 F2	1.0	0.27	ug/L			10/16/24 16:28	1
Bromochloromethane	<0.34	F1 F2	1.0	0.34	ug/L			10/16/24 16:28	1
Bromoform	<0.59	F2	1.0	0.59	ug/L			10/16/24 16:28	1
Bromomethane	<3.7	F1	5.0	3.7	ug/L			10/16/24 16:28	1
Carbon tetrachloride	<0.30	F1 F2	1.0	0.30	ug/L			10/16/24 16:28	1
Chlorobenzene	<0.15	F1 F2	1.0	0.15	ug/L			10/16/24 16:28	1
Chloroethane	<4.6	F1	5.0	4.6	ug/L			10/16/24 16:28	1

Client Sample ID: MW-60R-202410

Lab Sample ID: 680-256885-14

Date Collected: 10/08/24 10:05

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27	F2	1.0	0.27	ug/L			10/16/24 16:28	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:28	1
cis-1,2-Dichloroethene	<0.25	F1	1.0	0.25	ug/L			10/16/24 16:28	1
cis-1,3-Dichloropropene	<0.26	F1 F2	1.0	0.26	ug/L			10/16/24 16:28	1
Dibromochloromethane	<0.39	F2	1.0	0.39	ug/L			10/16/24 16:28	1
1,1-Dichloroethane	<0.33	F2	1.0	0.33	ug/L			10/16/24 16:28	1
1,2-Dichloroethane	<0.25	F1	1.0	0.25	ug/L			10/16/24 16:28	1
1,1-Dichloroethene	<0.33	F2	1.0	0.33	ug/L			10/16/24 16:28	1
1,3-Dichloropropene, Total	<0.48	F1 F2	2.0	0.48	ug/L			10/16/24 16:28	1
Ethylbenzene	<0.20	F1 F2	1.0	0.20	ug/L			10/16/24 16:28	1
4-Methyl-2-pentanone (MIBK)	<2.7	F1 F2	10	2.7	ug/L			10/16/24 16:28	1
1,1,2,2-Tetrachloroethane	<0.40	F2	1.0	0.40	ug/L			10/16/24 16:28	1
Tetrachloroethene	<0.35	F1 F2	1.0	0.35	ug/L			10/16/24 16:28	1
Toluene	<0.25	F1	1.0	0.25	ug/L			10/16/24 16:28	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:28	1
trans-1,3-Dichloropropene	<0.23	F1 F2	1.0	0.23	ug/L			10/16/24 16:28	1
1,1,1-Trichloroethane	<0.21	F2	1.0	0.21	ug/L			10/16/24 16:28	1
1,1,2-Trichloroethane	<0.32	F1 F2	1.0	0.32	ug/L			10/16/24 16:28	1
Trichloroethene	<0.20	F1 F2	1.0	0.20	ug/L			10/16/24 16:28	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:28	1
Xylenes, Total	<0.23	F1 F2	1.0	0.23	ug/L			10/16/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/16/24 16:28*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/16/24 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/16/24 16:28*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 16:28*	*1*

Client Sample ID: MW-98-202410

Lab Sample ID: 680-256885-15

Date Collected: 10/08/24 11:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 15:37	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 15:37	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 15:37	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 15:37	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 15:37	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 15:37	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 15:37	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 15:37	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 15:37	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 15:37	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 15:37	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 15:37	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 15:37	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 15:37	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 15:37	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 15:37	1

Client Sample ID: MW-98-202410

Lab Sample ID: 680-256885-15

Date Collected: 10/08/24 11:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 15:37	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 15:37	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 15:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 15:37	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 15:37	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 15:37	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 15:37	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 15:37	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 15:37	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 15:37	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 15:37	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 15:37	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/17/24 15:37*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/24 15:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/17/24 15:37*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/17/24 15:37*	*1*

Client Sample ID: MW-209-202410

Lab Sample ID: 680-256885-16

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:49	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:49	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:49	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:49	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:49	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:49	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:49	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:49	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:49	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:49	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:49	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:49	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:49	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:49	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:49	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:49	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:49	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:49	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:49	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:49	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:49	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:49	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:49	1

Client Sample ID: MW-209-202410

Lab Sample ID: 680-256885-16

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:49	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:49	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:49	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:49	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/16/24 16:49*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/16/24 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/16/24 16:49*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/16/24 16:49*	*1*

Client Sample ID: TMW-36B-202410

Lab Sample ID: 680-256885-17

Date Collected: 10/08/24 10:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:10	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:10	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:10	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:10	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:10	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:10	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:10	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:10	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:10	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:10	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 17:10	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:10	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:10	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:10	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:10	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:10	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:10	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:10	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:10	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:10	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 17:10	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:10	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:10	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:10	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:10	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 17:10	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:10	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/16/24 17:10*	*1*

Client Sample ID: TMW-36B-202410
Date Collected: 10/08/24 10:50
Date Received: 10/09/24 09:53

Lab Sample ID: 680-256885-17
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/16/24 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/16/24 17:10*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 17:10*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**920**		1.0	0.50	ug/L			10/15/24 17:20	1
Ethane	<0.75		1.0	0.75	ug/L			10/15/24 17:20	1
Ethylene	<0.55		1.0	0.55	ug/L			10/15/24 17:20	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**490**		25	10	mg/L			10/17/24 16:22	50
Sulfate	<20		50	20	mg/L			10/17/24 16:22	50

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.1**		0.10	0.020	mg/L		10/10/24 06:28	10/10/24 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.61**		0.10	0.010	mg/L			10/09/24 22:15	1
Nitrite as N (EPA 353.2)	**0.053**	**J B F1**	0.10	0.010	mg/L			10/09/24 16:12	1
Total Organic Carbon (SM 5310 B-2011)	**2.7**		1.0	0.50	mg/L			10/10/24 16:43	1
Nitrate as N (SM Nitrate by calc)	**0.56**		0.10	0.010	mg/L			10/14/24 14:26	1
Ferric Iron (SM 3500)	**0.10**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	**3.0**	**HF**	0.10	0.025	mg/L			10/09/24 22:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**2.6**		1.0	0.50	mg/L			10/12/24 18:50	1

Client Sample ID: MW-195-202410

Lab Sample ID: 680-256885-18

Date Collected: 10/08/24 11:55

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:32	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:32	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:32	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 17:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:32	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 17:32	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:32	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:32	1
Trichloroethene	**2.8**		1.0	0.20	ug/L			10/16/24 17:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/16/24 17:32*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/16/24 17:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/24 17:32*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/16/24 17:32*	*1*

Client Sample ID: DUP-05-202410

Lab Sample ID: 680-256885-19

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:53	1

Client Sample ID: DUP-05-202410

Lab Sample ID: 680-256885-19

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:53	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 17:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:53	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 17:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:53	1
Trichloroethene	**2.8**		1.0	0.20	ug/L			10/16/24 17:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/16/24 17:53*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/16/24 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/16/24 17:53*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 17:53*	*1*

Client Sample ID: ITMW-2R-202410

Lab Sample ID: 680-256885-20

Date Collected: 10/08/24 12:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 18:15	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 18:15	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 18:15	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 18:15	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 18:15	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 18:15	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 18:15	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 18:15	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 18:15	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 18:15	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 18:15	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 18:15	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 18:15	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 18:15	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 18:15	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 18:15	1

Client Sample ID: ITMW-2R-202410

Lab Sample ID: 680-256885-20

Date Collected: 10/08/24 12:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 18:15	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 18:15	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 18:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 18:15	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 18:15	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 18:15	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 18:15	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 18:15	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 18:15	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 18:15	1
Trichloroethene	**2.4**		1.0	0.20	ug/L			10/16/24 18:15	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 18:15	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/16/24 18:15*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/16/24 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/16/24 18:15*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 18:15*	*1*

Client Sample ID: TMW-14-202410

Lab Sample ID: 680-256885-21

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**9.2**	**J**	10	3.7	ug/L			10/17/24 15:58	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 15:58	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 15:58	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 15:58	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 15:58	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 15:58	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 15:58	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 15:58	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 15:58	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 15:58	1
cis-1,2-Dichloroethene	**6.3**		1.0	0.25	ug/L			10/17/24 15:58	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 15:58	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 15:58	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 15:58	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 15:58	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 15:58	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 15:58	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 15:58	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 15:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 15:58	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 15:58	1
Toluene	**4.4**		1.0	0.25	ug/L			10/17/24 15:58	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 15:58	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 15:58	1

Client Sample ID: TMW-14-202410

Lab Sample ID: 680-256885-21

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 15:58	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 15:58	1
Trichloroethene	2.8		1.0	0.20	ug/L			10/17/24 15:58	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 15:58	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/17/24 15:58*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/17/24 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/17/24 15:58*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/17/24 15:58*	*1*

Client Sample ID: DUP-04-202410

Lab Sample ID: 680-256885-22

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 16:19	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 16:19	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 16:19	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 16:19	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 16:19	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 16:19	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 16:19	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 16:19	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 16:19	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 16:19	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 16:19	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 16:19	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 16:19	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 16:19	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 16:19	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 16:19	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 16:19	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 16:19	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 16:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 16:19	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 16:19	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 16:19	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 16:19	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 16:19	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 16:19	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 16:19	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 16:19	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 16:19	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/17/24 16:19*	*1*

Client Sample ID: DUP-04-202410

Lab Sample ID: 680-256885-22

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 16:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/24 16:19*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/17/24 16:19*	*1*

Client Sample ID: DUP-01-202410

Lab Sample ID: 680-256885-23

Date Collected: 10/07/24 16:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 16:41	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 16:41	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 16:41	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 16:41	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 16:41	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 16:41	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 16:41	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 16:41	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 16:41	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 16:41	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 16:41	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 16:41	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 16:41	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 16:41	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 16:41	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 16:41	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 16:41	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 16:41	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 16:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 16:41	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 16:41	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 16:41	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 16:41	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 16:41	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 16:41	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 16:41	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 16:41	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 16:41	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/17/24 16:41*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/17/24 16:41*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/17/24 16:41*	*1*

Client Sample ID: MW-184-202410

Lab Sample ID: 680-256885-24

Date Collected: 10/08/24 13:12

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 17:02	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 17:02	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 17:02	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 17:02	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 17:02	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 17:02	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 17:02	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 17:02	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 17:02	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 17:02	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 17:02	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 17:02	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 17:02	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 17:02	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 17:02	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 17:02	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 17:02	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 17:02	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 17:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 17:02	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 17:02	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 17:02	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 17:02	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 17:02	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 17:02	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 17:02	1
Trichloroethene	**2.2**		1.0	0.20	ug/L			10/17/24 17:02	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 17:02	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/17/24 17:02*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/24 17:02*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/17/24 17:02*	*1*

Client Sample ID: DUP-02-202410

Lab Sample ID: 680-256885-25

Date Collected: 10/08/24 13:15

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 17:24	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 17:24	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 17:24	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 17:24	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 17:24	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 17:24	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 17:24	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 17:24	1

Client Sample ID: DUP-02-202410

Lab Sample ID: 680-256885-25

Date Collected: 10/08/24 13:15

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 17:24	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 17:24	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 17:24	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 17:24	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 17:24	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 17:24	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 17:24	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 17:24	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 17:24	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 17:24	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 17:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 17:24	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 17:24	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 17:24	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 17:24	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 17:24	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 17:24	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 17:24	1
Trichloroethene	**2.1**		1.0	0.20	ug/L			10/17/24 17:24	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 17:24	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/17/24 17:24*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/24 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/24 17:24*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/17/24 17:24*	*1*

Client Sample ID: MW-28-202410

Lab Sample ID: 680-256885-26

Date Collected: 10/08/24 13:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 18:49	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 18:49	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 18:49	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 18:49	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 18:49	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 18:49	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 18:49	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 18:49	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 18:49	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 18:49	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 18:49	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 18:49	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 18:49	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 18:49	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 18:49	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 18:49	1

Client Sample ID: MW-28-202410

Lab Sample ID: 680-256885-26

Date Collected: 10/08/24 13:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 18:49	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 18:49	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 18:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 18:49	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 18:49	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 18:49	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 18:49	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 18:49	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 18:49	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 18:49	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 18:49	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 18:49	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/17/24 18:49*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/24 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/24 18:49*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/17/24 18:49*	*1*

Client Sample ID: MW-212-202410

Lab Sample ID: 680-256885-27

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 19:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 19:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 19:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 19:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 19:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 19:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 19:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 19:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 19:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 19:11	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 19:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 19:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 19:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 19:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 19:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 19:11	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 19:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 19:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 19:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 19:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 19:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 19:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 19:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 19:11	1

Client Sample ID: MW-212-202410

Lab Sample ID: 680-256885-27

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 19:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 19:11	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 19:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 19:11	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/17/24 19:11*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/17/24 19:11*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/17/24 19:11*	*1*

Client Sample ID: MW-27-202410

Lab Sample ID: 680-256885-28

Date Collected: 10/08/24 15:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**150**		10	3.7	ug/L			10/17/24 19:32	1
Benzene	**0.27**	**J**	1.0	0.27	ug/L			10/17/24 19:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 19:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 19:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 19:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 19:32	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 19:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 19:32	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 19:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 19:32	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.25	ug/L			10/17/24 19:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 19:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 19:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 19:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 19:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 19:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 19:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 19:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 19:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 19:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 19:32	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 19:32	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 19:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 19:32	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 19:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 19:32	1
Trichloroethene	**0.64**	**J**	1.0	0.20	ug/L			10/17/24 19:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 19:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/17/24 19:32*	*1*

Client Sample ID: MW-27-202410

Lab Sample ID: 680-256885-28

Date Collected: 10/08/24 15:30

Matrix: Water

Date Received: 10/09/24 09:53

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/17/24 19:32*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/17/24 19:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 10:22	10/16/24 17:02	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 10:22	10/16/24 17:02	1
Ethylene	**1.2**	**J**	5.0	1.0	ug/L		10/16/24 10:22	10/16/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*49*		*43 - 133*	*10/16/24 10:22*	*10/16/24 17:02*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**12000**		250	150	ug/L		10/17/24 11:01	10/17/24 14:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*97*		*43 - 133*	*10/17/24 11:01*	*10/17/24 14:32*	*50*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<2.0		5.0	2.0	mg/L			10/17/24 16:28	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**42**		0.10	0.020	mg/L		10/10/24 06:28	10/10/24 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.030**	**J**	0.10	0.010	mg/L			10/09/24 22:14	1
Nitrite as N (EPA 353.2)	**0.10**	**B**	0.10	0.010	mg/L			10/09/24 16:15	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/14/24 14:26	1
Ferric Iron (SM 3500)	**42**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	**0.22**	**HF**	0.10	0.025	mg/L			10/09/24 22:11	1

Client Sample ID: MW-206-202410

Lab Sample ID: 680-256885-29

Date Collected: 10/08/24 15:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 19:54	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 19:54	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 19:54	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 19:54	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 19:54	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 19:54	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 19:54	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 19:54	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 19:54	1

Client Sample ID: MW-206-202410

Lab Sample ID: 680-256885-29

Date Collected: 10/08/24 15:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 19:54	1
cis-1,2-Dichloroethene	**0.77**	**J**	1.0	0.25	ug/L			10/17/24 19:54	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 19:54	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 19:54	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 19:54	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 19:54	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 19:54	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 19:54	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 19:54	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 19:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 19:54	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 19:54	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 19:54	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 19:54	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 19:54	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 19:54	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 19:54	1
Trichloroethene	**7.9**		1.0	0.20	ug/L			10/17/24 19:54	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 19:54	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/17/24 19:54*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/24 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/17/24 19:54*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/17/24 19:54*	*1*

Client Sample ID: MW-203-202410

Lab Sample ID: 680-256885-30

Date Collected: 10/08/24 15:15

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 20:15	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 20:15	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 20:15	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 20:15	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 20:15	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 20:15	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 20:15	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 20:15	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 20:15	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 20:15	1
cis-1,2-Dichloroethene	**8.2**		1.0	0.25	ug/L			10/17/24 20:15	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 20:15	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 20:15	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 20:15	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 20:15	1
1,1-Dichloroethene	**0.64**	**J**	1.0	0.33	ug/L			10/17/24 20:15	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 20:15	1

Client Sample ID: MW-203-202410

Lab Sample ID: 680-256885-30

Date Collected: 10/08/24 15:15

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 20:15	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 20:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 20:15	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 20:15	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 20:15	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 20:15	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 20:15	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 20:15	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 20:15	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 20:15	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/17/24 20:15*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/17/24 20:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/17/24 20:15*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*10/17/24 20:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**290**		5.0	1.0	ug/L			10/18/24 15:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/18/24 15:55*	*5*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/18/24 15:55*	*5*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/18/24 15:55*	*5*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 15:55*	*5*

Client Sample ID: TMW-36-202410

Lab Sample ID: 680-256885-31

Date Collected: 10/08/24 12:40

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 20:36	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 20:36	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 20:36	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 20:36	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 20:36	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 20:36	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 20:36	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 20:36	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 20:36	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 20:36	1
cis-1,2-Dichloroethene	**51**		1.0	0.25	ug/L			10/17/24 20:36	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 20:36	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 20:36	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 20:36	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 20:36	1
1,1-Dichloroethene	**0.36**	**J**	1.0	0.33	ug/L			10/17/24 20:36	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 20:36	1

Client Sample ID: TMW-36-202410
Date Collected: 10/08/24 12:40
Date Received: 10/09/24 09:53

Lab Sample ID: 680-256885-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 20:36	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 20:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 20:36	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 20:36	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 20:36	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 20:36	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 20:36	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 20:36	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 20:36	1
Trichloroethene	**75**		1.0	0.20	ug/L			10/17/24 20:36	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 20:36	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/17/24 20:36*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/17/24 20:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/17/24 20:36*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*10/17/24 20:36*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**11000**		5.0	2.5	ug/L			10/17/24 17:00	5
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 12:42	1
Ethylene	<0.55		1.0	0.55	ug/L			10/17/24 12:42	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		10	4.0	mg/L			10/17/24 16:48	20
Sulfate	<8.0		20	8.0	mg/L			10/17/24 16:48	20

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.5**		0.10	0.020	mg/L		10/10/24 06:28	10/10/24 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**1.8**		1.0	0.10	mg/L			10/09/24 22:19	10
Nitrite as N (EPA 353.2)	**0.062**	**J H B**	0.10	0.010	mg/L			10/10/24 14:18	1
Total Organic Carbon (SM 5310 B-2011)	**3.3**		1.0	0.50	mg/L			10/10/24 17:16	1

Client Sample ID: TMW-36-202410

Lab Sample ID: 680-256885-31

Date Collected: 10/08/24 12:40

Matrix: Water

Date Received: 10/09/24 09:53

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (SM Nitrate by calc)	1.7		0.10	0.010	mg/L			10/14/24 14:26	1
Ferric Iron (SM 3500)	3.9		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	0.65	HF	0.10	0.025	mg/L			10/09/24 22:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	3.0		1.0	0.50	mg/L			10/12/24 19:08	1

Client Sample ID: MW-62R-202410

Lab Sample ID: 680-256885-32

Date Collected: 10/07/24 16:20

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 13:58	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 13:58	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 13:58	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 13:58	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 13:58	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 13:58	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 13:58	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 13:58	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 13:58	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 13:58	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 13:58	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 13:58	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 13:58	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 13:58	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 13:58	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 13:58	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 13:58	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 13:58	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 13:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 13:58	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 13:58	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 13:58	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 13:58	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 13:58	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 13:58	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 13:58	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 13:58	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 13:58	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/18/24 13:58*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/18/24 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/18/24 13:58*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 13:58*	*1*

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Client Sample ID: TMW-19-202410
Date Collected: 10/08/24 14:50
Date Received: 10/09/24 09:53

Lab Sample ID: 680-256885-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 14:20	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 14:20	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 14:20	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 14:20	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 14:20	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 14:20	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 14:20	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 14:20	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 14:20	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 14:20	1
cis-1,2-Dichloroethene	**3.8**		1.0	0.25	ug/L			10/18/24 14:20	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 14:20	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 14:20	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 14:20	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 14:20	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 14:20	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 14:20	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 14:20	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 14:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 14:20	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 14:20	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 14:20	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 14:20	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 14:20	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 14:20	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 14:20	1
Trichloroethene	**78**		1.0	0.20	ug/L			10/18/24 14:20	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 14:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/18/24 14:20*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/18/24 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/18/24 14:20*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 14:20*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/17/24 12:51	1
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 12:51	1
Ethylene	<0.55		1.0	0.55	ug/L			10/17/24 12:51	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.0	2.0	mg/L			10/17/24 16:54	10
Sulfate	**18**		10	4.0	mg/L			10/17/24 16:54	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1

Client Sample ID: TMW-19-202410

Lab Sample ID: 680-256885-33

Date Collected: 10/08/24 14:50

Matrix: Water

Date Received: 10/09/24 09:53

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.066**	**J**	0.10	0.020	mg/L		10/10/24 06:28	10/10/24 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**23**		5.0	0.50	mg/L			10/09/24 22:17	50
Nitrite as N (EPA 353.2)	**0.037**	**J B**	0.10	0.010	mg/L			10/10/24 14:18	1
Total Organic Carbon (SM 5310 B-2011)	**1.1**		1.0	0.50	mg/L			10/10/24 17:33	1
Nitrate as N (SM Nitrate by calc)	**23**		0.10	0.010	mg/L			10/14/24 14:26	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/09/24 22:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**1.2**		1.0	0.50	mg/L			10/12/24 19:26	1

Client Sample ID: EB-01-202410

Lab Sample ID: 680-256885-34

Date Collected: 10/07/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 14:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/11/24 13:15	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/11/24 13:15	1
Bromoform	<0.59		1.0	0.59	ug/L			10/11/24 13:15	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/11/24 13:15	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/11/24 13:15	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/11/24 13:15	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/11/24 13:15	1
Chloroform	<0.27		1.0	0.27	ug/L			10/11/24 13:15	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/11/24 13:15	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/11/24 13:15	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/11/24 13:15	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/11/24 13:15	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/11/24 13:15	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/11/24 13:15	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/11/24 13:15	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/11/24 13:15	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/11/24 13:15	1

Client Sample ID: EB-01-202410

Lab Sample ID: 680-256885-34

Date Collected: 10/07/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/11/24 13:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/11/24 13:15	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/11/24 13:15	1
Toluene	<0.25		1.0	0.25	ug/L			10/11/24 13:15	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/11/24 13:15	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/11/24 13:15	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/11/24 13:15	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/11/24 13:15	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/11/24 13:15	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/11/24 13:15	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/11/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/11/24 13:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/17/24 14:32*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/11/24 13:15*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/17/24 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/11/24 13:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/17/24 14:32*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/11/24 13:15*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*10/17/24 14:32*	*1*

Client Sample ID: EB-02-202410

Lab Sample ID: 680-256885-35

Date Collected: 10/08/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/11/24 13:37	1
Benzene	<0.27		1.0	0.27	ug/L			10/11/24 13:37	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/11/24 13:37	1
Bromoform	<0.59		1.0	0.59	ug/L			10/11/24 13:37	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/11/24 13:37	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/11/24 13:37	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/11/24 13:37	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/11/24 13:37	1
Chloroform	<0.27		1.0	0.27	ug/L			10/11/24 13:37	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/11/24 13:37	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/11/24 13:37	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/11/24 13:37	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/11/24 13:37	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/11/24 13:37	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/11/24 13:37	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/11/24 13:37	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/11/24 13:37	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/11/24 13:37	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/11/24 13:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/11/24 13:37	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/11/24 13:37	1
Toluene	<0.25		1.0	0.25	ug/L			10/11/24 13:37	1

Client Sample ID: EB-02-202410

Lab Sample ID: 680-256885-35

Date Collected: 10/08/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/11/24 13:37	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/11/24 13:37	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/11/24 13:37	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/11/24 13:37	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/11/24 13:37	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/11/24 13:37	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/11/24 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/11/24 13:37*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/11/24 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/11/24 13:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/11/24 13:37*	*1*

Client Sample ID: TB-01-202410

Lab Sample ID: 680-256885-36

Date Collected: 10/07/24 08:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/11/24 13:58	1
Benzene	<0.27		1.0	0.27	ug/L			10/11/24 13:58	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/11/24 13:58	1
Bromoform	<0.59		1.0	0.59	ug/L			10/11/24 13:58	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/11/24 13:58	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/11/24 13:58	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/11/24 13:58	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/11/24 13:58	1
Chloroform	<0.27		1.0	0.27	ug/L			10/11/24 13:58	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/11/24 13:58	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/11/24 13:58	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/11/24 13:58	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/11/24 13:58	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/11/24 13:58	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/11/24 13:58	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/11/24 13:58	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/11/24 13:58	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/11/24 13:58	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/11/24 13:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/11/24 13:58	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/11/24 13:58	1
Toluene	<0.25		1.0	0.25	ug/L			10/11/24 13:58	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/11/24 13:58	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/11/24 13:58	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/11/24 13:58	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/11/24 13:58	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/11/24 13:58	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/11/24 13:58	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/11/24 13:58	1

Client Sample ID: TB-01-202410

Lab Sample ID: 680-256885-36

Date Collected: 10/07/24 08:00

Matrix: Water

Date Received: 10/09/24 09:53

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/11/24 13:58*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/11/24 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/11/24 13:58*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/11/24 13:58*	*1*

Client Sample ID: TB-02-202410

Lab Sample ID: 680-256885-37

Date Collected: 10/08/24 08:00

Matrix: Water

Date Received: 10/09/24 09:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/11/24 14:20	1
Benzene	<0.27		1.0	0.27	ug/L			10/11/24 14:20	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/11/24 14:20	1
Bromoform	<0.59		1.0	0.59	ug/L			10/11/24 14:20	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/11/24 14:20	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/11/24 14:20	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/11/24 14:20	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/11/24 14:20	1
Chloroform	<0.27		1.0	0.27	ug/L			10/11/24 14:20	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/11/24 14:20	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/11/24 14:20	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/11/24 14:20	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/11/24 14:20	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/11/24 14:20	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/11/24 14:20	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/11/24 14:20	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/11/24 14:20	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/11/24 14:20	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/11/24 14:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/11/24 14:20	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/11/24 14:20	1
Toluene	<0.25		1.0	0.25	ug/L			10/11/24 14:20	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/11/24 14:20	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/11/24 14:20	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/11/24 14:20	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/11/24 14:20	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/11/24 14:20	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/11/24 14:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/11/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/11/24 14:20*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/11/24 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/11/24 14:20*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/11/24 14:20*	*1*

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Client Sample ID: ITMW-7-202410
Date Collected: 10/08/24 17:05
Date Received: 10/09/24 09:53

Lab Sample ID: 680-256885-38
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/21/24 15:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/21/24 15:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/21/24 15:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/21/24 15:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/21/24 15:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/21/24 15:32	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/21/24 15:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/21/24 15:32	1
Chloroform	<0.27		1.0	0.27	ug/L			10/21/24 15:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/21/24 15:32	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/21/24 15:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/21/24 15:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/21/24 15:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/21/24 15:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/21/24 15:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/21/24 15:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/21/24 15:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/21/24 15:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/21/24 15:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/21/24 15:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/21/24 15:32	1
Toluene	<0.25		1.0	0.25	ug/L			10/21/24 18:04	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/21/24 15:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/21/24 15:32	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/21/24 15:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/21/24 15:32	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/21/24 15:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/21/24 15:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/21/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/21/24 15:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/21/24 18:04*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/21/24 15:32*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/21/24 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/21/24 15:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/21/24 18:04*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/21/24 15:32*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/21/24 18:04*	*1*

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

Lab Sample ID: MB 680-858984/8
Matrix: Water
Analysis Batch: 858984

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/11/24 11:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/11/24 11:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/11/24 11:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/11/24 11:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/11/24 11:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/11/24 11:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/11/24 11:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/11/24 11:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/11/24 11:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/11/24 11:53	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/11/24 11:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/11/24 11:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/11/24 11:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/11/24 11:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/11/24 11:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/11/24 11:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/11/24 11:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/11/24 11:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/11/24 11:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/11/24 11:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/11/24 11:53	1
Toluene	<0.25		1.0	0.25	ug/L			10/11/24 11:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/11/24 11:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/11/24 11:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/11/24 11:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/11/24 11:53	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/11/24 11:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/11/24 11:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/11/24 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/11/24 11:53*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/11/24 11:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/11/24 11:53*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/11/24 11:53*	*1*

Lab Sample ID: LCS 680-858984/4
Matrix: Water
Analysis Batch: 858984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			250	219		ug/L		88	67 - 120		
Benzene			50.0	53.3		ug/L		107	70 - 130		
Bromochloromethane			50.0	51.8		ug/L		104	70 - 130		
Bromoform			50.0	47.3		ug/L		95	69 - 129		
Bromomethane			50.0	55.4		ug/L		111	28 - 192		
Carbon tetrachloride			50.0	47.3		ug/L		95	70 - 130		
Chlorobenzene			50.0	49.0		ug/L		98	70 - 130		

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

Lab Sample ID: LCS 680-858984/4
Matrix: Water
Analysis Batch: 858984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	70.4		ug/L		141	31 - 213		
Chloroform			50.0	53.0		ug/L		106	70 - 130		
Chloromethane			50.0	47.1		ug/L		94	59 - 127		
cis-1,2-Dichloroethene			50.0	52.2		ug/L		104	70 - 130		
cis-1,3-Dichloropropene			50.0	56.1		ug/L		112	70 - 130		
Dibromochloromethane			50.0	49.0		ug/L		98	70 - 130		
1,1-Dichloroethane			50.0	54.6		ug/L		109	70 - 130		
1,2-Dichloroethane			50.0	52.8		ug/L		106	70 - 130		
1,1-Dichloroethene			50.0	53.6		ug/L		107	70 - 130		
1,3-Dichloropropene, Total			100	111		ug/L		111	70 - 130		
Ethylbenzene			50.0	49.0		ug/L		98	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	222		ug/L		89	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	54.7		ug/L		109	70 - 130		
Tetrachloroethene			50.0	40.0		ug/L		80	70 - 130		
Toluene			50.0	48.3		ug/L		97	70 - 130		
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130		
trans-1,3-Dichloropropene			50.0	54.9		ug/L		110	70 - 130		
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	70 - 130		
1,1,2-Trichloroethane			50.0	53.3		ug/L		107	70 - 130		
Trichloroethene			50.0	46.5		ug/L		93	70 - 130		
Vinyl chloride			50.0	63.0		ug/L		126	66 - 129		
Xylenes, Total			100	95.7		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Toluene-d8 (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 680-858984/5
Matrix: Water
Analysis Batch: 858984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	227		ug/L		91	67 - 120	4	30
Benzene			50.0	52.3		ug/L		105	70 - 130	2	30
Bromochloromethane			50.0	51.9		ug/L		104	70 - 130	0	30
Bromoform			50.0	47.5		ug/L		95	69 - 129	0	30
Bromomethane			50.0	55.7		ug/L		111	28 - 192	1	30
Carbon tetrachloride			50.0	47.0		ug/L		94	70 - 130	1	30
Chlorobenzene			50.0	48.6		ug/L		97	70 - 130	1	30
Chloroethane			50.0	67.1		ug/L		134	31 - 213	5	30
Chloroform			50.0	52.9		ug/L		106	70 - 130	0	30
Chloromethane			50.0	46.5		ug/L		93	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	52.0		ug/L		104	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	54.6		ug/L		109	70 - 130	3	20
Dibromochloromethane			50.0	49.4		ug/L		99	70 - 130	1	30
1,1-Dichloroethane			50.0	54.1		ug/L		108	70 - 130	1	30

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

Lab Sample ID: LCSD 680-858984/5
Matrix: Water
Analysis Batch: 858984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	52.9		ug/L		106	70 - 130	0	50
1,1-Dichloroethene			50.0	55.8		ug/L		112	70 - 130	4	20
1,3-Dichloropropene, Total			100	109		ug/L		109	70 - 130	2	30
Ethylbenzene			50.0	47.8		ug/L		96	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	230		ug/L		92	68 - 120	3	30
1,1,2,2-Tetrachloroethane			50.0	54.4		ug/L		109	70 - 130	1	30
Tetrachloroethene			50.0	40.9		ug/L		82	70 - 130	2	30
Toluene			50.0	48.7		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.1		ug/L		102	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	54.4		ug/L		109	70 - 130	1	30
1,1,1-Trichloroethane			50.0	48.5		ug/L		97	70 - 130	0	30
1,1,2-Trichloroethane			50.0	53.4		ug/L		107	70 - 130	0	30
Trichloroethene			50.0	46.9		ug/L		94	70 - 130	1	30
Vinyl chloride			50.0	60.7		ug/L		121	66 - 129	4	30
Xylenes, Total			100	94.3		ug/L		94	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Toluene-d8 (Surr)	*86*		*70 - 130*

Lab Sample ID: MB 680-859661/9
Matrix: Water
Analysis Batch: 859661

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 12:36	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 12:36	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 12:36	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 12:36	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 12:36	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 12:36	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 12:36	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 12:36	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 12:36	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 12:36	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 12:36	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 12:36	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 12:36	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 12:36	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 12:36	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 12:36	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 12:36	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 12:36	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 12:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 12:36	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 12:36	1

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

Lab Sample ID: MB 680-859661/9
Matrix: Water
Analysis Batch: 859661

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 12:36	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 12:36	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 12:36	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 12:36	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 12:36	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 12:36	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 12:36	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/16/24 12:36*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/16/24 12:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/16/24 12:36*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/16/24 12:36*	*1*

Lab Sample ID: LCS 680-859661/5
Matrix: Water
Analysis Batch: 859661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	226		ug/L		91	67 - 120
Benzene	50.0	52.0		ug/L		104	70 - 130
Bromochloromethane	50.0	57.4		ug/L		115	70 - 130
Bromoform	50.0	45.3		ug/L		91	69 - 129
Bromomethane	50.0	57.7		ug/L		115	28 - 192
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	52.9		ug/L		106	31 - 213
Chloroform	50.0	55.5		ug/L		111	70 - 130
Chloromethane	50.0	48.9		ug/L		98	59 - 127
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130
Dibromochloromethane	50.0	50.7		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	57.5		ug/L		115	70 - 130
1,2-Dichloroethane	50.0	51.5		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	60.3		ug/L		121	70 - 130
1,3-Dichloropropene, Total	100	97.7		ug/L		98	70 - 130
Ethylbenzene	50.0	50.5		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	250	228		ug/L		91	68 - 120
1,1,2,2-Tetrachloroethane	50.0	41.7		ug/L		83	70 - 130
Tetrachloroethene	50.0	57.6		ug/L		115	70 - 130
Toluene	50.0	53.8		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	54.1		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	49.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	50.0	51.2		ug/L		102	70 - 130
Vinyl chloride	50.0	53.5		ug/L		107	66 - 129

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

Lab Sample ID: LCS 680-859661/5
Matrix: Water
Analysis Batch: 859661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	101		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*118*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-859661/6
Matrix: Water
Analysis Batch: 859661

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	227		ug/L		91	67 - 120	0	30
Benzene			50.0	52.5		ug/L		105	70 - 130	1	30
Bromochloromethane			50.0	56.5		ug/L		113	70 - 130	2	30
Bromoform			50.0	46.9		ug/L		94	69 - 129	4	30
Bromomethane			50.0	56.4		ug/L		113	28 - 192	2	30
Carbon tetrachloride			50.0	51.5		ug/L		103	70 - 130	4	30
Chlorobenzene			50.0	48.6		ug/L		97	70 - 130	0	30
Chloroethane			50.0	55.1		ug/L		110	31 - 213	4	30
Chloroform			50.0	54.8		ug/L		110	70 - 130	1	30
Chloromethane			50.0	44.5		ug/L		89	59 - 127	9	30
cis-1,2-Dichloroethene			50.0	53.7		ug/L		107	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	5	20
Dibromochloromethane			50.0	52.9		ug/L		106	70 - 130	4	30
1,1-Dichloroethane			50.0	54.9		ug/L		110	70 - 130	5	30
1,2-Dichloroethane			50.0	54.1		ug/L		108	70 - 130	5	50
1,1-Dichloroethene			50.0	57.5		ug/L		115	70 - 130	5	20
1,3-Dichloropropene, Total			100	103		ug/L		103	70 - 130	5	30
Ethylbenzene			50.0	50.2		ug/L		100	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	233		ug/L		93	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	43.6		ug/L		87	70 - 130	5	30
Tetrachloroethene			50.0	55.9		ug/L		112	70 - 130	3	30
Toluene			50.0	53.3		ug/L		107	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	53.1		ug/L		106	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	52.2		ug/L		104	70 - 130	5	30
1,1,1-Trichloroethane			50.0	56.9		ug/L		114	70 - 130	5	30
1,1,2-Trichloroethane			50.0	52.4		ug/L		105	70 - 130	5	30
Trichloroethene			50.0	53.0		ug/L		106	70 - 130	3	30
Vinyl chloride			50.0	49.5		ug/L		99	66 - 129	8	30
Xylenes, Total			100	100		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*115*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: 680-256885-3 MS
Matrix: Water
Analysis Batch: 859661

Client Sample ID: MW-29-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.7		250	245		ug/L		98	67 - 120
Benzene	<0.27		50.0	61.3		ug/L		123	70 - 130
Bromochloromethane	<0.34	F1	50.0	65.7	F1	ug/L		131	70 - 130
Bromoform	<0.59		50.0	49.4		ug/L		99	69 - 129
Bromomethane	<3.7		50.0	74.3		ug/L		149	28 - 192
Carbon tetrachloride	<0.30		50.0	64.7		ug/L		129	70 - 130
Chlorobenzene	4.2		50.0	53.0		ug/L		97	70 - 130
Chloroethane	<4.6		50.0	53.3		ug/L		107	31 - 213
Chloroform	<0.27		50.0	58.5		ug/L		117	70 - 130
Chloromethane	<0.54		50.0	50.9		ug/L		102	59 - 127
cis-1,2-Dichloroethene	<0.25		50.0	60.0		ug/L		120	70 - 130
cis-1,3-Dichloropropene	<0.26		50.0	57.8		ug/L		116	70 - 130
Dibromochloromethane	<0.39		50.0	58.0		ug/L		116	70 - 130
1,1-Dichloroethane	<0.33		50.0	62.3		ug/L		125	70 - 130
1,2-Dichloroethane	<0.25		50.0	58.1		ug/L		116	70 - 130
1,1-Dichloroethene	<0.33	F1	50.0	75.3	F1	ug/L		151	70 - 130
1,3-Dichloropropene, Total	<0.48		100	111		ug/L		111	70 - 130
Ethylbenzene	<0.20		50.0	50.9		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7		250	271		ug/L		108	68 - 120
1,1,2,2-Tetrachloroethane	<0.40		50.0	42.9		ug/L		86	70 - 130
Tetrachloroethene	<0.35		50.0	63.9		ug/L		128	70 - 130
Toluene	<0.25		50.0	59.8		ug/L		120	70 - 130
trans-1,2-Dichloroethene	<0.34	F1	50.0	65.6	F1	ug/L		131	70 - 130
trans-1,3-Dichloropropene	<0.23		50.0	53.5		ug/L		107	70 - 130
1,1,1-Trichloroethane	<0.21	F1	50.0	68.5	F1	ug/L		137	70 - 130
1,1,2-Trichloroethane	<0.32		50.0	55.6		ug/L		111	70 - 130
Trichloroethene	<0.20		50.0	62.1		ug/L		124	70 - 130
Vinyl chloride	<0.40		50.0	63.2		ug/L		126	66 - 129
Xylenes, Total	<0.23		100	101		ug/L		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*128*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 124*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-256885-3 MSD
Matrix: Water
Analysis Batch: 859661

Client Sample ID: MW-29-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<3.7		250	256		ug/L		103	67 - 120	4	30
Benzene	<0.27		50.0	61.9		ug/L		124	70 - 130	1	30
Bromochloromethane	<0.34	F1	50.0	67.4	F1	ug/L		135	70 - 130	3	30
Bromoform	<0.59		50.0	51.1		ug/L		102	69 - 129	4	30
Bromomethane	<3.7		50.0	72.5		ug/L		145	28 - 192	2	30
Carbon tetrachloride	<0.30		50.0	64.3		ug/L		129	70 - 130	1	30
Chlorobenzene	4.2		50.0	53.9		ug/L		99	70 - 130	2	30

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

Lab Sample ID: 680-256885-3 MSD
Matrix: Water
Analysis Batch: 859661

Client Sample ID: MW-29-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane	<4.6		50.0	51.2		ug/L		102	31 - 213	4	30
Chloroform	<0.27		50.0	58.8		ug/L		118	70 - 130	0	30
Chloromethane	<0.54		50.0	54.2		ug/L		108	59 - 127	6	30
cis-1,2-Dichloroethene	<0.25		50.0	60.8		ug/L		122	70 - 130	1	30
cis-1,3-Dichloropropene	<0.26		50.0	59.2		ug/L		118	70 - 130	2	20
Dibromochloromethane	<0.39		50.0	59.4		ug/L		119	70 - 130	2	30
1,1-Dichloroethane	<0.33		50.0	62.5		ug/L		125	70 - 130	0	30
1,2-Dichloroethane	<0.25		50.0	59.4		ug/L		119	70 - 130	2	50
1,1-Dichloroethene	<0.33	F1	50.0	74.4	F1	ug/L		149	70 - 130	1	20
1,3-Dichloropropene, Total	<0.48		100	114		ug/L		114	70 - 130	2	30
Ethylbenzene	<0.20		50.0	51.4		ug/L		103	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	<2.7		250	279		ug/L		112	68 - 120	3	30
1,1,2,2-Tetrachloroethane	<0.40		50.0	43.5		ug/L		87	70 - 130	1	30
Tetrachloroethene	<0.35		50.0	64.0		ug/L		128	70 - 130	0	30
Toluene	<0.25		50.0	60.4		ug/L		121	70 - 130	1	30
trans-1,2-Dichloroethene	<0.34	F1	50.0	65.0		ug/L		130	70 - 130	1	30
trans-1,3-Dichloropropene	<0.23		50.0	54.8		ug/L		110	70 - 130	2	30
1,1,1-Trichloroethane	<0.21	F1	50.0	67.9	F1	ug/L		136	70 - 130	1	30
1,1,2-Trichloroethane	<0.32		50.0	57.4		ug/L		115	70 - 130	3	30
Trichloroethene	<0.20		50.0	61.9		ug/L		124	70 - 130	0	30
Vinyl chloride	<0.40		50.0	63.3		ug/L		127	66 - 129	0	30
Xylenes, Total	<0.23		100	104		ug/L		104	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*128*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-859668/8
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 12:41	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 12:41	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 12:41	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 12:41	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 12:41	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 12:41	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 12:41	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 12:41	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 12:41	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 12:41	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 12:41	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 12:41	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 12:41	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 12:41	1

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

Lab Sample ID: MB 680-859668/8
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 12:41	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 12:41	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 12:41	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 12:41	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 12:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 12:41	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 12:41	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 12:41	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 12:41	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 12:41	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 12:41	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 12:41	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 12:41	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 12:41	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/16/24 12:41*	*1*
Dibromofluoromethane (Surr)	*84*		*70 - 130*		*10/16/24 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/16/24 12:41*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/16/24 12:41*	*1*

Lab Sample ID: LCS 680-859668/4
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	207		ug/L		83	67 - 120
Benzene	50.0	42.1		ug/L		84	70 - 130
Bromochloromethane	50.0	42.0		ug/L		84	70 - 130
Bromoform	50.0	49.3		ug/L		99	69 - 129
Bromomethane	50.0	50.8		ug/L		102	28 - 192
Carbon tetrachloride	50.0	43.7		ug/L		87	70 - 130
Chlorobenzene	50.0	44.5		ug/L		89	70 - 130
Chloroethane	50.0	70.5		ug/L		141	31 - 213
Chloroform	50.0	46.6		ug/L		93	70 - 130
Chloromethane	50.0	43.8		ug/L		88	59 - 127
cis-1,2-Dichloroethene	50.0	42.8		ug/L		86	70 - 130
cis-1,3-Dichloropropene	50.0	42.8		ug/L		86	70 - 130
Dibromochloromethane	50.0	47.1		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	46.5		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	47.1		ug/L		94	70 - 130
1,3-Dichloropropene, Total	100	88.3		ug/L		88	70 - 130
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	250	199		ug/L		79	68 - 120
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 130
Tetrachloroethene	50.0	45.5		ug/L		91	70 - 130

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

Lab Sample ID: LCS 680-859668/4
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			50.0	42.6		ug/L		85	70 - 130		
trans-1,2-Dichloroethene			50.0	44.4		ug/L		89	70 - 130		
trans-1,3-Dichloropropene			50.0	45.5		ug/L		91	70 - 130		
1,1,1-Trichloroethane			50.0	47.4		ug/L		95	70 - 130		
1,1,2-Trichloroethane			50.0	43.7		ug/L		87	70 - 130		
Trichloroethene			50.0	42.9		ug/L		86	70 - 130		
Vinyl chloride			50.0	50.4		ug/L		101	66 - 129		
Xylenes, Total			100	93.8		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*88*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 680-859668/5
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	215		ug/L		86	67 - 120	4	30
Benzene			50.0	42.1		ug/L		84	70 - 130	0	30
Bromochloromethane			50.0	42.3		ug/L		85	70 - 130	1	30
Bromoform			50.0	50.9		ug/L		102	69 - 129	3	30
Bromomethane			50.0	51.4		ug/L		103	28 - 192	1	30
Carbon tetrachloride			50.0	42.7		ug/L		85	70 - 130	2	30
Chlorobenzene			50.0	44.5		ug/L		89	70 - 130	0	30
Chloroethane			50.0	68.4		ug/L		137	31 - 213	3	30
Chloroform			50.0	46.9		ug/L		94	70 - 130	1	30
Chloromethane			50.0	43.1		ug/L		86	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	42.5		ug/L		85	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	42.8		ug/L		86	70 - 130	0	20
Dibromochloromethane			50.0	48.4		ug/L		97	70 - 130	3	30
1,1-Dichloroethane			50.0	45.8		ug/L		92	70 - 130	2	30
1,2-Dichloroethane			50.0	47.0		ug/L		94	70 - 130	2	50
1,1-Dichloroethene			50.0	46.2		ug/L		92	70 - 130	2	20
1,3-Dichloropropene, Total			100	90.0		ug/L		90	70 - 130	2	30
Ethylbenzene			50.0	45.5		ug/L		91	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	207		ug/L		83	68 - 120	4	30
1,1,2,2-Tetrachloroethane			50.0	48.9		ug/L		98	70 - 130	1	30
Tetrachloroethene			50.0	44.9		ug/L		90	70 - 130	1	30
Toluene			50.0	43.3		ug/L		87	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	44.3		ug/L		89	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	47.2		ug/L		94	70 - 130	4	30
1,1,1-Trichloroethane			50.0	47.4		ug/L		95	70 - 130	0	30
1,1,2-Trichloroethane			50.0	44.8		ug/L		90	70 - 130	2	30
Trichloroethene			50.0	41.5		ug/L		83	70 - 130	3	30
Vinyl chloride			50.0	48.7		ug/L		97	66 - 129	3	30

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

Lab Sample ID: LCSD 680-859668/5
Matrix: Water
Analysis Batch: 859668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	92.6		ug/L		93	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*88*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: 680-256885-14 MS
Matrix: Water
Analysis Batch: 859668

Client Sample ID: MW-60R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.7	F1 F2	250	154	F1	ug/L		62	67 - 120
Benzene	<0.27	F1 F2	50.0	31.7	F1	ug/L		63	70 - 130
Bromochloromethane	<0.34	F1 F2	50.0	32.6	F1	ug/L		65	70 - 130
Bromoform	<0.59	F2	50.0	36.3		ug/L		73	69 - 129
Bromomethane	<3.7	F1	50.0	144	F1	ug/L		287	28 - 192
Carbon tetrachloride	<0.30	F1 F2	50.0	34.0	F1	ug/L		68	70 - 130
Chlorobenzene	<0.15	F1 F2	50.0	32.2	F1	ug/L		64	70 - 130
Chloroethane	<4.6	F1	50.0	181	F1	ug/L		363	31 - 213
Chloroform	<0.27	F2	50.0	35.4		ug/L		71	70 - 130
Chloromethane	<0.54		50.0	50.3		ug/L		101	59 - 127
cis-1,2-Dichloroethene	<0.25	F1	50.0	33.1	F1	ug/L		66	70 - 130
cis-1,3-Dichloropropene	<0.26	F1 F2	50.0	32.1	F1	ug/L		64	70 - 130
Dibromochloromethane	<0.39	F2	50.0	35.1		ug/L		70	70 - 130
1,1-Dichloroethane	<0.33	F2	50.0	35.8		ug/L		72	70 - 130
1,2-Dichloroethane	<0.25	F1	50.0	34.3	F1	ug/L		69	70 - 130
1,1-Dichloroethene	<0.33	F2	50.0	37.5		ug/L		75	70 - 130
1,3-Dichloropropene, Total	<0.48	F1 F2	100	64.2	F1	ug/L		64	70 - 130
Ethylbenzene	<0.20	F1 F2	50.0	33.5	F1	ug/L		67	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7	F1 F2	250	151	F1	ug/L		60	68 - 120
1,1,2,2-Tetrachloroethane	<0.40	F2	50.0	35.4		ug/L		71	70 - 130
Tetrachloroethene	<0.35	F1 F2	50.0	33.4	F1	ug/L		67	70 - 130
Toluene	<0.25	F1	50.0	32.7	F1	ug/L		65	70 - 130
trans-1,2-Dichloroethene	<0.34		50.0	35.5		ug/L		71	70 - 130
trans-1,3-Dichloropropene	<0.23	F1 F2	50.0	32.1	F1	ug/L		64	70 - 130
1,1,1-Trichloroethane	<0.21	F2	50.0	36.6		ug/L		73	70 - 130
1,1,2-Trichloroethane	<0.32	F1 F2	50.0	31.1	F1	ug/L		62	70 - 130
Trichloroethene	<0.20	F1 F2	50.0	31.1	F1	ug/L		62	70 - 130
Vinyl chloride	<0.40		50.0	59.0		ug/L		118	66 - 129
Xylenes, Total	<0.23	F1 F2	100	67.2	F1	ug/L		67	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*
Dibromofluoromethane (Surr)	*65*	*S1-*	*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*67*		*60 - 124*
Toluene-d8 (Surr)	*66*	*S1-*	*70 - 130*

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

Lab Sample ID: 680-256885-14 MSD
Matrix: Water
Analysis Batch: 859668

Client Sample ID: MW-60R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<3.7	F1 F2	250	219	F2	ug/L		88	67 - 120	35	30
Benzene	<0.27	F1 F2	50.0	43.8	F2	ug/L		88	70 - 130	32	30
Bromochloromethane	<0.34	F1 F2	50.0	44.7	F2	ug/L		89	70 - 130	31	30
Bromoform	<0.59	F2	50.0	51.9	F2	ug/L		104	69 - 129	35	30
Bromomethane	<3.7	F1	50.0	137	F1	ug/L		275	28 - 192	5	30
Carbon tetrachloride	<0.30	F1 F2	50.0	46.5	F2	ug/L		93	70 - 130	31	30
Chlorobenzene	<0.15	F1 F2	50.0	44.8	F2	ug/L		90	70 - 130	33	30
Chloroethane	<4.6	F1	50.0	158	F1	ug/L		316	31 - 213	14	30
Chloroform	<0.27	F2	50.0	49.7	F2	ug/L		99	70 - 130	34	30
Chloromethane	<0.54		50.0	42.0		ug/L		84	59 - 127	18	30
cis-1,2-Dichloroethene	<0.25	F1	50.0	44.4		ug/L		89	70 - 130	29	30
cis-1,3-Dichloropropene	<0.26	F1 F2	50.0	45.8	F2	ug/L		92	70 - 130	35	20
Dibromochloromethane	<0.39	F2	50.0	49.0	F2	ug/L		98	70 - 130	33	30
1,1-Dichloroethane	<0.33	F2	50.0	48.7	F2	ug/L		97	70 - 130	31	30
1,2-Dichloroethane	<0.25	F1	50.0	48.4		ug/L		97	70 - 130	34	50
1,1-Dichloroethene	<0.33	F2	50.0	51.4	F2	ug/L		103	70 - 130	31	20
1,3-Dichloropropene, Total	<0.48	F1 F2	100	90.4	F2	ug/L		90	70 - 130	34	30
Ethylbenzene	<0.20	F1 F2	50.0	46.2	F2	ug/L		92	70 - 130	32	20
4-Methyl-2-pentanone (MIBK)	<2.7	F1 F2	250	216	F2	ug/L		87	68 - 120	36	30
1,1,2,2-Tetrachloroethane	<0.40	F2	50.0	50.2	F2	ug/L		100	70 - 130	35	30
Tetrachloroethene	<0.35	F1 F2	50.0	46.6	F2	ug/L		93	70 - 130	33	30
Toluene	<0.25	F1	50.0	44.2		ug/L		88	70 - 130	30	30
trans-1,2-Dichloroethene	<0.34		50.0	47.9		ug/L		96	70 - 130	30	30
trans-1,3-Dichloropropene	<0.23	F1 F2	50.0	44.6	F2	ug/L		89	70 - 130	33	30
1,1,1-Trichloroethane	<0.21	F2	50.0	50.1	F2	ug/L		100	70 - 130	31	30
1,1,2-Trichloroethane	<0.32	F1 F2	50.0	44.4	F2	ug/L		89	70 - 130	35	30
Trichloroethene	<0.20	F1 F2	50.0	42.9	F2	ug/L		86	70 - 130	32	30
Vinyl chloride	<0.40		50.0	48.8		ug/L		98	66 - 129	19	30
Xylenes, Total	<0.23	F1 F2	100	92.6	F2	ug/L		93	70 - 130	32	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 680-859876/10
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/17/24 13:29	1
Benzene	<0.27		1.0	0.27	ug/L			10/17/24 13:29	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/17/24 13:29	1
Bromoform	<0.59		1.0	0.59	ug/L			10/17/24 13:29	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/17/24 13:29	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/17/24 13:29	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/17/24 13:29	1

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

Lab Sample ID: MB 680-859876/10
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<4.6		5.0	4.6	ug/L			10/17/24 13:29	1
Chloroform	<0.27		1.0	0.27	ug/L			10/17/24 13:29	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/17/24 13:29	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/17/24 13:29	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/17/24 13:29	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/17/24 13:29	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/17/24 13:29	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/17/24 13:29	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/17/24 13:29	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/17/24 13:29	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/17/24 13:29	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/17/24 13:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/17/24 13:29	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/17/24 13:29	1
Toluene	<0.25		1.0	0.25	ug/L			10/17/24 13:29	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/17/24 13:29	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/17/24 13:29	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/17/24 13:29	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/17/24 13:29	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/17/24 13:29	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/17/24 13:29	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/17/24 13:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/17/24 13:29*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/17/24 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/17/24 13:29*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/17/24 13:29*	*1*

Lab Sample ID: LCS 680-859876/6
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	196		ug/L		78	67 - 120
Benzene	50.0	42.4		ug/L		85	70 - 130
Bromochloromethane	50.0	44.4		ug/L		89	70 - 130
Bromoform	50.0	48.6		ug/L		97	69 - 129
Bromomethane	50.0	60.6		ug/L		121	28 - 192
Carbon tetrachloride	50.0	45.4		ug/L		91	70 - 130
Chlorobenzene	50.0	46.8		ug/L		94	70 - 130
Chloroethane	50.0	71.1		ug/L		142	31 - 213
Chloroform	50.0	48.7		ug/L		97	70 - 130
Chloromethane	50.0	42.7		ug/L		85	59 - 127
cis-1,2-Dichloroethene	50.0	43.7		ug/L		87	70 - 130
cis-1,3-Dichloropropene	50.0	45.2		ug/L		90	70 - 130
Dibromochloromethane	50.0	47.1		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130

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

Lab Sample ID: LCS 680-859876/6
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	47.1		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
1,3-Dichloropropene, Total	100	89.8		ug/L		90	70 - 130
Ethylbenzene	50.0	48.1		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	250	189		ug/L		75	68 - 120
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	70 - 130
Tetrachloroethene	50.0	45.3		ug/L		91	70 - 130
Toluene	50.0	44.0		ug/L		88	70 - 130
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	44.6		ug/L		89	70 - 130
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	41.8		ug/L		84	70 - 130
Trichloroethene	50.0	44.0		ug/L		88	70 - 130
Vinyl chloride	50.0	49.0		ug/L		98	66 - 129
Xylenes, Total	100	97.7		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 680-859876/7
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	250	215		ug/L		86	67 - 120	9	30
Benzene	50.0	42.6		ug/L		85	70 - 130	0	30
Bromochloromethane	50.0	45.5		ug/L		91	70 - 130	3	30
Bromoform	50.0	50.2		ug/L		100	69 - 129	3	30
Bromomethane	50.0	60.9		ug/L		122	28 - 192	0	30
Carbon tetrachloride	50.0	45.8		ug/L		92	70 - 130	1	30
Chlorobenzene	50.0	46.6		ug/L		93	70 - 130	1	30
Chloroethane	50.0	75.6		ug/L		151	31 - 213	6	30
Chloroform	50.0	49.3		ug/L		99	70 - 130	1	30
Chloromethane	50.0	42.8		ug/L		86	59 - 127	0	30
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	70 - 130	2	20
Dibromochloromethane	50.0	48.5		ug/L		97	70 - 130	3	30
1,1-Dichloroethane	50.0	49.1		ug/L		98	70 - 130	1	30
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 130	4	50
1,1-Dichloroethene	50.0	49.0		ug/L		98	70 - 130	0	20
1,3-Dichloropropene, Total	100	91.6		ug/L		92	70 - 130	2	30
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	250	195		ug/L		78	68 - 120	3	30
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 130	2	30
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 130	1	30

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

Lab Sample ID: LCSD 680-859876/7
Matrix: Water
Analysis Batch: 859876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			50.0	43.5		ug/L		87	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	45.4		ug/L		91	70 - 130	2	30
1,1,1-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
1,1,2-Trichloroethane			50.0	43.6		ug/L		87	70 - 130	4	30
Trichloroethene			50.0	44.7		ug/L		89	70 - 130	2	30
Vinyl chloride			50.0	47.6		ug/L		95	66 - 129	3	30
Xylenes, Total			100	97.6		ug/L		98	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 680-860053/10
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 12:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 12:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 12:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 12:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 12:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 12:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 12:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 12:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 12:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 12:11	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 12:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 12:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 12:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 12:11	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 12:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 12:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 12:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 12:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 12:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 12:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 12:11	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 12:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 12:11	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 12:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 12:11	1

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

Lab Sample ID: MB 680-860053/10
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/18/24 12:11*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/18/24 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/18/24 12:11*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 12:11*	*1*

Lab Sample ID: LCS 680-860053/6
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	202		ug/L		81	67 - 120
Benzene	50.0	42.6		ug/L		85	70 - 130
Bromochloromethane	50.0	46.2		ug/L		92	70 - 130
Bromoform	50.0	45.8		ug/L		92	69 - 129
Bromomethane	50.0	61.5		ug/L		123	28 - 192
Carbon tetrachloride	50.0	46.2		ug/L		92	70 - 130
Chlorobenzene	50.0	44.5		ug/L		89	70 - 130
Chloroethane	50.0	75.7		ug/L		151	31 - 213
Chloroform	50.0	50.1		ug/L		100	70 - 130
Chloromethane	50.0	45.2		ug/L		90	59 - 127
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	70 - 130
cis-1,3-Dichloropropene	50.0	44.8		ug/L		90	70 - 130
Dibromochloromethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
1,3-Dichloropropene, Total	100	89.0		ug/L		89	70 - 130
Ethylbenzene	50.0	46.9		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	250	186		ug/L		74	68 - 120
1,1,2,2-Tetrachloroethane	50.0	44.1		ug/L		88	70 - 130
Tetrachloroethene	50.0	45.9		ug/L		92	70 - 130
Toluene	50.0	43.5		ug/L		87	70 - 130
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	44.1		ug/L		88	70 - 130
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	41.6		ug/L		83	70 - 130
Trichloroethene	50.0	42.8		ug/L		86	70 - 130
Vinyl chloride	50.0	49.3		ug/L		99	66 - 129
Xylenes, Total	100	94.5		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

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

Lab Sample ID: LCSD 680-860053/7
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	205		ug/L		82	67 - 120	1	30
Benzene			50.0	42.5		ug/L		85	70 - 130	0	30
Bromochloromethane			50.0	45.6		ug/L		91	70 - 130	1	30
Bromoform			50.0	47.1		ug/L		94	69 - 129	3	30
Bromomethane			50.0	59.8		ug/L		120	28 - 192	3	30
Carbon tetrachloride			50.0	44.8		ug/L		90	70 - 130	3	30
Chlorobenzene			50.0	44.6		ug/L		89	70 - 130	0	30
Chloroethane			50.0	67.9		ug/L		136	31 - 213	11	30
Chloroform			50.0	48.5		ug/L		97	70 - 130	3	30
Chloromethane			50.0	42.3		ug/L		85	59 - 127	7	30
cis-1,2-Dichloroethene			50.0	43.5		ug/L		87	70 - 130	4	30
cis-1,3-Dichloropropene			50.0	45.3		ug/L		91	70 - 130	1	20
Dibromochloromethane			50.0	48.3		ug/L		97	70 - 130	5	30
1,1-Dichloroethane			50.0	48.0		ug/L		96	70 - 130	3	30
1,2-Dichloroethane			50.0	48.9		ug/L		98	70 - 130	0	50
1,1-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	7	20
1,3-Dichloropropene, Total			100	89.3		ug/L		89	70 - 130	0	30
Ethylbenzene			50.0	46.4		ug/L		93	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	197		ug/L		79	68 - 120	5	30
1,1,2,2-Tetrachloroethane			50.0	46.7		ug/L		93	70 - 130	6	30
Tetrachloroethene			50.0	45.6		ug/L		91	70 - 130	1	30
Toluene			50.0	42.7		ug/L		85	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	46.4		ug/L		93	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	44.0		ug/L		88	70 - 130	0	30
1,1,1-Trichloroethane			50.0	49.6		ug/L		99	70 - 130	4	30
1,1,2-Trichloroethane			50.0	42.6		ug/L		85	70 - 130	2	30
Trichloroethene			50.0	42.1		ug/L		84	70 - 130	2	30
Vinyl chloride			50.0	48.0		ug/L		96	66 - 129	3	30
Xylenes, Total			100	93.7		ug/L		94	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 680-860376/8
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/21/24 13:03	1
Benzene	<0.27		1.0	0.27	ug/L			10/21/24 13:03	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/21/24 13:03	1
Bromoform	<0.59		1.0	0.59	ug/L			10/21/24 13:03	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/21/24 13:03	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/21/24 13:03	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/21/24 13:03	1

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

Lab Sample ID: MB 680-860376/8
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<4.6		5.0	4.6	ug/L			10/21/24 13:03	1
Chloroform	<0.27		1.0	0.27	ug/L			10/21/24 13:03	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/21/24 13:03	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/21/24 13:03	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/21/24 13:03	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/21/24 13:03	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/21/24 13:03	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/21/24 13:03	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/21/24 13:03	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/21/24 13:03	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/21/24 13:03	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/21/24 13:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/21/24 13:03	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/21/24 13:03	1
Toluene	<0.25		1.0	0.25	ug/L			10/21/24 13:03	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/21/24 13:03	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/21/24 13:03	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/21/24 13:03	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/21/24 13:03	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/21/24 13:03	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/21/24 13:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/21/24 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/21/24 13:03*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/21/24 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/21/24 13:03*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/21/24 13:03*	*1*

Lab Sample ID: LCS 680-860376/4
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	236		ug/L		94	67 - 120
Benzene	50.0	48.8		ug/L		98	70 - 130
Bromochloromethane	50.0	46.4		ug/L		93	70 - 130
Bromoform	50.0	47.8		ug/L		96	69 - 129
Bromomethane	50.0	49.5		ug/L		99	28 - 192
Carbon tetrachloride	50.0	46.2		ug/L		92	70 - 130
Chlorobenzene	50.0	50.0		ug/L		100	70 - 130
Chloroethane	50.0	41.2		ug/L		82	31 - 213
Chloroform	50.0	44.4		ug/L		89	70 - 130
Chloromethane	50.0	46.1		ug/L		92	59 - 127
cis-1,2-Dichloroethene	50.0	45.9		ug/L		92	70 - 130
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130
Dibromochloromethane	50.0	50.9		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	44.8		ug/L		90	70 - 130

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

Lab Sample ID: LCS 680-860376/4
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	50.9		ug/L		102	70 - 130
1,3-Dichloropropene, Total	100	99.9		ug/L		100	70 - 130
Ethylbenzene	50.0	48.7		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	250	258		ug/L		103	68 - 120
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/L		109	70 - 130
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 130
Toluene	50.0	49.4		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	48.8		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	43.8		ug/L		88	70 - 130
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130
Trichloroethene	50.0	44.5		ug/L		89	70 - 130
Vinyl chloride	50.0	48.4		ug/L		97	66 - 129
Xylenes, Total	100	99.9		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-860376/5
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	250	245		ug/L		98	67 - 120	4	30
Benzene	50.0	49.2		ug/L		98	70 - 130	1	30
Bromochloromethane	50.0	47.3		ug/L		95	70 - 130	2	30
Bromoform	50.0	50.0		ug/L		100	69 - 129	4	30
Bromomethane	50.0	47.2		ug/L		94	28 - 192	5	30
Carbon tetrachloride	50.0	46.1		ug/L		92	70 - 130	0	30
Chlorobenzene	50.0	52.1		ug/L		104	70 - 130	4	30
Chloroethane	50.0	41.6		ug/L		83	31 - 213	1	30
Chloroform	50.0	45.4		ug/L		91	70 - 130	2	30
Chloromethane	50.0	46.8		ug/L		94	59 - 127	2	30
cis-1,2-Dichloroethene	50.0	46.5		ug/L		93	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	70 - 130	1	20
Dibromochloromethane	50.0	50.5		ug/L		101	70 - 130	1	30
1,1-Dichloroethane	50.0	46.2		ug/L		92	70 - 130	3	30
1,2-Dichloroethane	50.0	46.9		ug/L		94	70 - 130	2	50
1,1-Dichloroethene	50.0	45.5		ug/L		91	70 - 130	11	20
1,3-Dichloropropene, Total	100	100		ug/L		100	70 - 130	0	30
Ethylbenzene	50.0	50.2		ug/L		100	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	250	262		ug/L		105	68 - 120	1	30
1,1,2,2-Tetrachloroethane	50.0	56.7		ug/L		113	70 - 130	4	30
Tetrachloroethene	50.0	45.4		ug/L		91	70 - 130	1	30

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

Lab Sample ID: LCSD 680-860376/5
Matrix: Water
Analysis Batch: 860376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			50.0	48.9		ug/L		98	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.6		ug/L		97	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	52.2		ug/L		104	70 - 130	0	30
1,1,1-Trichloroethane			50.0	45.4		ug/L		91	70 - 130	4	30
1,1,2-Trichloroethane			50.0	47.6		ug/L		95	70 - 130	1	30
Trichloroethene			50.0	43.3		ug/L		87	70 - 130	3	30
Vinyl chloride			50.0	46.9		ug/L		94	66 - 129	3	30
Xylenes, Total			100	103		ug/L		103	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-563845/1-A
Matrix: Water
Analysis Batch: 563804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 10:22	10/16/24 10:54	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 10:22	10/16/24 10:54	1
Ethylene	<1.0		5.0	1.0	ug/L		10/16/24 10:22	10/16/24 10:54	1
Methane	<3.0		5.0	3.0	ug/L		10/16/24 10:22	10/16/24 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*110*		*43 - 133*	*10/16/24 10:22*	*10/16/24 10:54*	*1*

Lab Sample ID: LCS 410-563845/2-A
Matrix: Water
Analysis Batch: 563804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563845

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene			52.1	57.5		ug/L		110	61 - 148
Ethane			61.7	67.1		ug/L		109	85 - 115
Ethylene			58.3	64.6		ug/L		111	83 - 115
Methane			59.8	66.5		ug/L		111	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*110*		*43 - 133*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 410-564454/1-A
Matrix: Water
Analysis Batch: 564379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Methane	<3.0		5.0	3.0	ug/L		10/17/24 11:01	10/17/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*101*		*43 - 133*	*10/17/24 11:01*	*10/17/24 11:03*	*1*

Lab Sample ID: LCS 410-564454/2-A
Matrix: Water
Analysis Batch: 564379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	55.1		ug/L		106	61 - 148
Ethane	61.7	61.4		ug/L		99	85 - 115
Ethylene	58.3	59.2		ug/L		101	83 - 115
Methane	59.8	61.5		ug/L		103	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*97*		*43 - 133*

Lab Sample ID: MB 400-687954/3
Matrix: Water
Analysis Batch: 687954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/15/24 09:58	1
Ethane	<0.75		1.0	0.75	ug/L			10/15/24 09:58	1
Ethylene	<0.55		1.0	0.55	ug/L			10/15/24 09:58	1

Lab Sample ID: LCS 400-687954/4
Matrix: Water
Analysis Batch: 687954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	389	455		ug/L		117	82 - 117
Ethane	736	828		ug/L		112	85 - 116
Ethylene	687	739		ug/L		108	83 - 121

Lab Sample ID: LCSD 400-687954/5
Matrix: Water
Analysis Batch: 687954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	389	412		ug/L		106	82 - 117	10	20
Ethane	736	752		ug/L		102	85 - 116	10	20
Ethylene	687	674		ug/L		98	83 - 121	9	20

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 400-688243/3
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/17/24 10:00	1
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 10:00	1
Ethylene	<0.55		1.0	0.55	ug/L			10/17/24 10:00	1

Lab Sample ID: LCS 400-688243/4
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	389	394		ug/L		101	82 - 117
Ethane	736	729		ug/L		99	85 - 116
Ethylene	687	657		ug/L		96	83 - 121

Lab Sample ID: LCSD 400-688243/5
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	389	412		ug/L		106	82 - 117	5	20
Ethane	736	758		ug/L		103	85 - 116	4	20
Ethylene	687	686		ug/L		100	83 - 121	4	20

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-859935/10
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/17/24 13:57	1
Sulfate	<0.40		1.0	0.40	mg/L			10/17/24 13:57	1

Lab Sample ID: LCS 680-859935/11
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Sulfate	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-859935/12
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.73		mg/L		97	90 - 110	1	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-256885-28 MS
Matrix: Water
Analysis Batch: 859935

Client Sample ID: MW-27-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	37	F1	50.0	87.5		mg/L		100	80 - 120
Sulfate	<2.0		50.0	46.9		mg/L		94	80 - 120

Lab Sample ID: 680-256885-28 MSD
Matrix: Water
Analysis Batch: 859935

Client Sample ID: MW-27-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37	F1	50.0	121	E F1	mg/L		168	80 - 120	NC	15
Sulfate	<2.0		50.0	46.9		mg/L		94	80 - 120	0	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-116108/1
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Lab Sample ID: LCS 670-116108/3
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	20.8		mg/L		104	60 - 140
Butyric acid	20.0	18.0		mg/L		90	60 - 140
Formic acid	20.0	22.7		mg/L		114	60 - 140
Hexanoic acid	20.0	15.3		mg/L		77	60 - 140
Pentanoic acid	20.0	21.1		mg/L		106	60 - 140
Propionic acid	20.0	14.2		mg/L		71	60 - 140
Pyruvic Acid	20.0	21.7		mg/L		109	60 - 140

Lab Sample ID: LCSD 670-116108/4
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid	20.0	21.6		mg/L		108	60 - 140	4	25
Butyric acid	20.0	19.2		mg/L		96	60 - 140	6	25
Formic acid	20.0	22.4		mg/L		112	60 - 140	1	25
Hexanoic acid	20.0	13.2		mg/L		66	60 - 140	15	25
Pentanoic acid	20.0	21.7		mg/L		109	60 - 140	3	25

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Lab Sample ID: LCSD 670-116108/4
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Propionic acid			20.0	16.7		mg/L		84	60 - 140	16	25
Pyruvic Acid			20.0	23.3		mg/L		117	60 - 140	7	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-858757/1-A
Matrix: Water
Analysis Batch: 858970

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 858757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/10/24 06:28	10/10/24 15:46	1

Lab Sample ID: LCS 680-858757/2-A
Matrix: Water
Analysis Batch: 858970

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 858757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			5.00	5.26		mg/L		105	80 - 120		

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-858740/3
Matrix: Water
Analysis Batch: 858740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0118	J	0.10	0.010	mg/L			10/09/24 16:10	1

Lab Sample ID: LCS 680-858740/4
Matrix: Water
Analysis Batch: 858740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.500	0.461		mg/L		92	90 - 110		

Lab Sample ID: 680-256885-17 MS
Matrix: Water
Analysis Batch: 858740

Client Sample ID: TMW-36B-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.053	J B F1	0.125	0.605	F1	mg/L		442	90 - 110		

Lab Sample ID: 680-256885-17 MSD
Matrix: Water
Analysis Batch: 858740

Client Sample ID: TMW-36B-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.053	J B F1	0.125	0.654	F1	mg/L		481	90 - 110	8	10

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 680-859094/14
Matrix: Water
Analysis Batch: 859094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0240	J	0.10	0.010	mg/L			10/10/24 10:05	1

Lab Sample ID: LCS 680-859094/15
Matrix: Water
Analysis Batch: 859094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.500	0.490		mg/L		98	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-858825/21
Matrix: Water
Analysis Batch: 858825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/09/24 22:05	1

Lab Sample ID: LCS 680-858825/22
Matrix: Water
Analysis Batch: 858825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.939		mg/L		94	90 - 110

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-859181/3
Matrix: Water
Analysis Batch: 859181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			10/10/24 15:38	1

Lab Sample ID: LCS 680-859181/4
Matrix: Water
Analysis Batch: 859181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.2		mg/L		96	80 - 120

Lab Sample ID: LCSD 680-859181/5
Matrix: Water
Analysis Batch: 859181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.2		mg/L		96	80 - 120	0	25

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-256885-17 DU
Matrix: Water
Analysis Batch: 859181

Client Sample ID: TMW-36B-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.7		2.61		mg/L		2	25

Method: 5310 B-2011 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 680-859178/1-A
Matrix: Water
Analysis Batch: 859268

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.50		1.0	0.50	mg/L			10/12/24 17:14	1

Lab Sample ID: LCS 680-859178/2-A
Matrix: Water
Analysis Batch: 859268

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	19.2		mg/L		96	80 - 120

Lab Sample ID: LCSD 680-859178/3-A
Matrix: Water
Analysis Batch: 859268

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	19.1		mg/L		95	80 - 120	1	20

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-858752/12
Matrix: Water
Analysis Batch: 858752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.025		0.10	0.025	mg/L			10/09/24 22:11	1

Lab Sample ID: LCS 680-858752/11
Matrix: Water
Analysis Batch: 858752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	2.00	1.94		mg/L		97	80 - 120

Lab Sample ID: 680-256885-17 MS
Matrix: Water
Analysis Batch: 858752

Client Sample ID: TMW-36B-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	3.0	HF	2.00	4.80		mg/L		91	80 - 120

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Method: SM 3500 FE D - Iron, Ferrous (Continued)

Lab Sample ID: 680-256885-17 MSD
Matrix: Water
Analysis Batch: 858752

Client Sample ID: TMW-36B-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	3.0	HF	2.00	4.80		mg/L		91	80 - 120	0	20

GC/MS VOA

Analysis Batch: 858984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-34	EB-01-202410	Total/NA	Water	8260D	
680-256885-35	EB-02-202410	Total/NA	Water	8260D	
680-256885-36	TB-01-202410	Total/NA	Water	8260D	
680-256885-37	TB-02-202410	Total/NA	Water	8260D	
MB 680-858984/8	Method Blank	Total/NA	Water	8260D	
LCS 680-858984/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-858984/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 859661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-1	MW-39R-202410	Total/NA	Water	8260D	
680-256885-2	ITMW-20-202410	Total/NA	Water	8260D	
680-256885-3	MW-29-202410	Total/NA	Water	8260D	
680-256885-11	TMW-35-202410	Total/NA	Water	8260D	
MB 680-859661/9	Method Blank	Total/NA	Water	8260D	
LCS 680-859661/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-859661/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-256885-3 MS	MW-29-202410	Total/NA	Water	8260D	
680-256885-3 MSD	MW-29-202410	Total/NA	Water	8260D	

Analysis Batch: 859668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-4	MW-200-202410	Total/NA	Water	8260D	
680-256885-5	TMW-20-202410	Total/NA	Water	8260D	
680-256885-6	MW-211-202410	Total/NA	Water	8260D	
680-256885-7	MW-97-202410	Total/NA	Water	8260D	
680-256885-8	MW-207-202410	Total/NA	Water	8260D	
680-256885-9	MW-26-202410	Total/NA	Water	8260D	
680-256885-10	TMW-29-202410	Total/NA	Water	8260D	
680-256885-14	MW-60R-202410	Total/NA	Water	8260D	
680-256885-16	MW-209-202410	Total/NA	Water	8260D	
680-256885-17	TMW-36B-202410	Total/NA	Water	8260D	
680-256885-18	MW-195-202410	Total/NA	Water	8260D	
680-256885-19	DUP-05-202410	Total/NA	Water	8260D	
680-256885-20	ITMW-2R-202410	Total/NA	Water	8260D	
MB 680-859668/8	Method Blank	Total/NA	Water	8260D	
LCS 680-859668/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-859668/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-256885-14 MS	MW-60R-202410	Total/NA	Water	8260D	
680-256885-14 MSD	MW-60R-202410	Total/NA	Water	8260D	

Analysis Batch: 859876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-12	MW-208-202410	Total/NA	Water	8260D	
680-256885-13	MW-22-202410	Total/NA	Water	8260D	
680-256885-15	MW-98-202410	Total/NA	Water	8260D	
680-256885-21	TMW-14-202410	Total/NA	Water	8260D	
680-256885-22	DUP-04-202410	Total/NA	Water	8260D	
680-256885-23	DUP-01-202410	Total/NA	Water	8260D	
680-256885-24	MW-184-202410	Total/NA	Water	8260D	
680-256885-25	DUP-02-202410	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 859876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-26	MW-28-202410	Total/NA	Water	8260D	
680-256885-27	MW-212-202410	Total/NA	Water	8260D	
680-256885-28	MW-27-202410	Total/NA	Water	8260D	
680-256885-29	MW-206-202410	Total/NA	Water	8260D	
680-256885-30	MW-203-202410	Total/NA	Water	8260D	
680-256885-31	TMW-36-202410	Total/NA	Water	8260D	
680-256885-34	EB-01-202410	Total/NA	Water	8260D	
MB 680-859876/10	Method Blank	Total/NA	Water	8260D	
LCS 680-859876/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-859876/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-30 - DL	MW-203-202410	Total/NA	Water	8260D	
680-256885-32	MW-62R-202410	Total/NA	Water	8260D	
680-256885-33	TMW-19-202410	Total/NA	Water	8260D	
MB 680-860053/10	Method Blank	Total/NA	Water	8260D	
LCS 680-860053/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860053/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-38	ITMW-7-202410	Total/NA	Water	8260D	
680-256885-38	ITMW-7-202410	Total/NA	Water	8260D	
MB 680-860376/8	Method Blank	Total/NA	Water	8260D	
LCS 680-860376/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860376/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 563804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-28	MW-27-202410	Total/NA	Water	RSK-175	563845
MB 410-563845/1-A	Method Blank	Total/NA	Water	RSK-175	563845
LCS 410-563845/2-A	Lab Control Sample	Total/NA	Water	RSK-175	563845

Prep Batch: 563845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-28	MW-27-202410	Total/NA	Water	RSK-175	
MB 410-563845/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-563845/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 564379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-28 - DL	MW-27-202410	Total/NA	Water	RSK-175	564454
MB 410-564454/1-A	Method Blank	Total/NA	Water	RSK-175	564454
LCS 410-564454/2-A	Lab Control Sample	Total/NA	Water	RSK-175	564454

Prep Batch: 564454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-28 - DL	MW-27-202410	Total/NA	Water	RSK-175	

GC VOA (Continued)

Prep Batch: 564454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-564454/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-564454/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 687954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	RSK-175	
MB 400-687954/3	Method Blank	Total/NA	Water	RSK-175	
LCS 400-687954/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 400-687954/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 688243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-31	TMW-36-202410	Total/NA	Water	RSK-175	
680-256885-31	TMW-36-202410	Total/NA	Water	RSK-175	
680-256885-33	TMW-19-202410	Total/NA	Water	RSK-175	
MB 400-688243/3	Method Blank	Total/NA	Water	RSK-175	
LCS 400-688243/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 400-688243/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 116108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	VFA-HPLC	
680-256885-31	TMW-36-202410	Total/NA	Water	VFA-HPLC	
680-256885-33	TMW-19-202410	Total/NA	Water	VFA-HPLC	
MB 670-116108/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-116108/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-116108/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 859935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	300.0-1993 R2.1	
680-256885-28	MW-27-202410	Total/NA	Water	300.0-1993 R2.1	
680-256885-31	TMW-36-202410	Total/NA	Water	300.0-1993 R2.1	
680-256885-33	TMW-19-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-859935/10	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-859935/11	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-859935/12	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-256885-28 MS	MW-27-202410	Total/NA	Water	300.0-1993 R2.1	
680-256885-28 MSD	MW-27-202410	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 858757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total Recoverable	Water	3005A	
680-256885-28	MW-27-202410	Total Recoverable	Water	3005A	
680-256885-31	TMW-36-202410	Total Recoverable	Water	3005A	
680-256885-33	TMW-19-202410	Total Recoverable	Water	3005A	
MB 680-858757/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-858757/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 858970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total Recoverable	Water	6010D	858757
680-256885-28	MW-27-202410	Total Recoverable	Water	6010D	858757
680-256885-31	TMW-36-202410	Total Recoverable	Water	6010D	858757
680-256885-33	TMW-19-202410	Total Recoverable	Water	6010D	858757
MB 680-858757/1-A	Method Blank	Total Recoverable	Water	6010D	858757
LCS 680-858757/2-A	Lab Control Sample	Total Recoverable	Water	6010D	858757

General Chemistry

Analysis Batch: 858740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	353.2	
680-256885-28	MW-27-202410	Total/NA	Water	353.2	
MB 680-858740/3	Method Blank	Total/NA	Water	353.2	
LCS 680-858740/4	Lab Control Sample	Total/NA	Water	353.2	
680-256885-17 MS	TMW-36B-202410	Total/NA	Water	353.2	
680-256885-17 MSD	TMW-36B-202410	Total/NA	Water	353.2	

Analysis Batch: 858752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	SM 3500 FE D	
680-256885-28	MW-27-202410	Total/NA	Water	SM 3500 FE D	
680-256885-31	TMW-36-202410	Total/NA	Water	SM 3500 FE D	
680-256885-33	TMW-19-202410	Total/NA	Water	SM 3500 FE D	
MB 680-858752/12	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-858752/11	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
680-256885-17 MS	TMW-36B-202410	Total/NA	Water	SM 3500 FE D	
680-256885-17 MSD	TMW-36B-202410	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 858825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	353.2	
680-256885-28	MW-27-202410	Total/NA	Water	353.2	
680-256885-31	TMW-36-202410	Total/NA	Water	353.2	
680-256885-33	TMW-19-202410	Total/NA	Water	353.2	
MB 680-858825/21	Method Blank	Total/NA	Water	353.2	
LCS 680-858825/22	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 859094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-31	TMW-36-202410	Total/NA	Water	353.2	
680-256885-33	TMW-19-202410	Total/NA	Water	353.2	
MB 680-859094/14	Method Blank	Total/NA	Water	353.2	
LCS 680-859094/15	Lab Control Sample	Total/NA	Water	353.2	

Filtration Batch: 859178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Dissolved	Water	FILTRATION	
680-256885-31	TMW-36-202410	Dissolved	Water	FILTRATION	
680-256885-33	TMW-19-202410	Dissolved	Water	FILTRATION	
MB 680-859178/1-A	Method Blank	Dissolved	Water	FILTRATION	

General Chemistry (Continued)

Filtration Batch: 859178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-859178/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-859178/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 859181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	5310 B-2011	
680-256885-31	TMW-36-202410	Total/NA	Water	5310 B-2011	
680-256885-33	TMW-19-202410	Total/NA	Water	5310 B-2011	
MB 680-859181/3	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-859181/4	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-859181/5	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
680-256885-17 DU	TMW-36B-202410	Total/NA	Water	5310 B-2011	

Analysis Batch: 859268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Dissolved	Water	5310 B-2011	859178
680-256885-31	TMW-36-202410	Dissolved	Water	5310 B-2011	859178
680-256885-33	TMW-19-202410	Dissolved	Water	5310 B-2011	859178
MB 680-859178/1-A	Method Blank	Dissolved	Water	5310 B-2011	859178
LCS 680-859178/2-A	Lab Control Sample	Dissolved	Water	5310 B-2011	859178
LCSD 680-859178/3-A	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	859178

Analysis Batch: 859343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	Nitrate by calc	
680-256885-28	MW-27-202410	Total/NA	Water	Nitrate by calc	
680-256885-31	TMW-36-202410	Total/NA	Water	Nitrate by calc	
680-256885-33	TMW-19-202410	Total/NA	Water	Nitrate by calc	

Analysis Batch: 860396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256885-17	TMW-36B-202410	Total/NA	Water	SM 3500	
680-256885-28	MW-27-202410	Total/NA	Water	SM 3500	
680-256885-31	TMW-36-202410	Total/NA	Water	SM 3500	
680-256885-33	TMW-19-202410	Total/NA	Water	SM 3500	

Client Sample ID: MW-39R-202410

Lab Sample ID: 680-256885-1

Date Collected: 10/07/24 15:10

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859661	10/16/24 16:03	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: ITMW-20-202410

Lab Sample ID: 680-256885-2

Date Collected: 10/07/24 16:40

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859661	10/16/24 16:25	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-29-202410

Lab Sample ID: 680-256885-3

Date Collected: 10/07/24 16:18

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859661	10/16/24 16:48	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-200-202410

Lab Sample ID: 680-256885-4

Date Collected: 10/07/24 17:20

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 18:36	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-20-202410

Lab Sample ID: 680-256885-5

Date Collected: 10/07/24 17:32

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 14:19	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-211-202410

Lab Sample ID: 680-256885-6

Date Collected: 10/07/24 17:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 14:41	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-97-202410

Lab Sample ID: 680-256885-7

Date Collected: 10/07/24 18:29

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 15:02	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-207-202410

Lab Sample ID: 680-256885-8

Date Collected: 10/07/24 18:00

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 15:23	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-26-202410

Lab Sample ID: 680-256885-9

Date Collected: 10/08/24 09:00

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 15:45	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-29-202410

Lab Sample ID: 680-256885-10

Date Collected: 10/08/24 08:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 16:06	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-35-202410

Lab Sample ID: 680-256885-11

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859661	10/16/24 19:52	P1C	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-208-202410

Lab Sample ID: 680-256885-12

Date Collected: 10/08/24 09:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 14:54	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-22-202410
Lab Sample ID: 680-256885-13
Date Collected: 10/08/24 10:10
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 15:15	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-60R-202410
Lab Sample ID: 680-256885-14
Date Collected: 10/08/24 10:05
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 16:28	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-98-202410
Lab Sample ID: 680-256885-15
Date Collected: 10/08/24 11:30
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 15:37	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-209-202410
Lab Sample ID: 680-256885-16
Date Collected: 10/08/24 11:50
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 16:49	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-36B-202410
Lab Sample ID: 680-256885-17
Date Collected: 10/08/24 10:50
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 17:10	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	687954	10/15/24 17:20	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		50	2 mL	2 mL	859935	10/17/24 16:22	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858757	10/10/24 06:28	RR	EET SAV
Total Recoverable	Analysis	6010D		1			858970	10/10/24 16:50	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	858740	10/09/24 16:12	KD	EET SAV
	Instrument ID: SEAL 1									

Client Sample ID: TMW-36B-202410

Lab Sample ID: 680-256885-17

Date Collected: 10/08/24 10:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	858825	10/09/24 22:15	KD	EET SAV
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859178	10/12/24 13:46	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859268	10/12/24 18:50	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859181	10/10/24 16:43	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/14/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	858752	10/09/24 22:11	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-195-202410

Lab Sample ID: 680-256885-18

Date Collected: 10/08/24 11:55

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 17:32	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-05-202410

Lab Sample ID: 680-256885-19

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 17:53	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: ITMW-2R-202410

Lab Sample ID: 680-256885-20

Date Collected: 10/08/24 12:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859668	10/16/24 18:15	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-14-202410

Lab Sample ID: 680-256885-21

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 15:58	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-04-202410

Lab Sample ID: 680-256885-22

Date Collected: 10/08/24 09:05

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 16:19	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-01-202410

Lab Sample ID: 680-256885-23

Date Collected: 10/07/24 16:40

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 16:41	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-184-202410

Lab Sample ID: 680-256885-24

Date Collected: 10/08/24 13:12

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 17:02	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-02-202410

Lab Sample ID: 680-256885-25

Date Collected: 10/08/24 13:15

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 17:24	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-28-202410

Lab Sample ID: 680-256885-26

Date Collected: 10/08/24 13:30

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 18:49	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-212-202410

Lab Sample ID: 680-256885-27

Date Collected: 10/08/24 13:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 19:11	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-27-202410

Lab Sample ID: 680-256885-28

Date Collected: 10/08/24 15:30

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 19:32	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	563845	10/16/24 10:22	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	563804	10/16/24 17:02	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	564454	10/17/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	50	5 mL	5 mL	564379	10/17/24 14:32	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	859935	10/17/24 16:28	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	858757	10/10/24 06:28	RR	EET SAV
Total Recoverable	Analysis	6010D		1			858970	10/10/24 16:48	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	858740	10/09/24 16:15	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	858825	10/09/24 22:14	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/14/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	858752	10/09/24 22:11	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-206-202410

Lab Sample ID: 680-256885-29

Date Collected: 10/08/24 15:40

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 19:54	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-203-202410

Lab Sample ID: 680-256885-30

Date Collected: 10/08/24 15:15

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 20:15	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	860053	10/18/24 15:55	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-36-202410

Lab Sample ID: 680-256885-31

Date Collected: 10/08/24 12:40

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 20:36	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 12:42	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		5	1 mL	1 mL	688243	10/17/24 17:00	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	859935	10/17/24 16:48	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858757	10/10/24 06:28	RR	EET SAV
Total Recoverable	Analysis	6010D		1			858970	10/10/24 16:53	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		10	2 mL	2 mL	858825	10/09/24 22:19	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 14:18	AF	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859178	10/12/24 13:46	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859268	10/12/24 19:08	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859181	10/10/24 17:16	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/14/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	858752	10/09/24 22:11	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-62R-202410

Lab Sample ID: 680-256885-32

Date Collected: 10/07/24 16:20

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 13:58	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-19-202410

Lab Sample ID: 680-256885-33

Date Collected: 10/08/24 14:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 14:20	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-19-202410

Lab Sample ID: 680-256885-33

Date Collected: 10/08/24 14:50

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 12:51	BJ	EET PEN
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	859935	10/17/24 16:54	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858757	10/10/24 06:28	RR	EET SAV
Total Recoverable	Analysis	6010D		1			858970	10/10/24 16:56	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		50	2 mL	2 mL	858825	10/09/24 22:17	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 14:18	AF	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859178	10/12/24 13:46	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859268	10/12/24 19:26	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859181	10/10/24 17:33	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/14/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	858752	10/09/24 22:11	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: EB-01-202410

Lab Sample ID: 680-256885-34

Date Collected: 10/07/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	858984	10/11/24 13:15	MLL	EET SAV
	Instrument ID: CMSAH									
Total/NA	Analysis	8260D		1	5 mL	5 mL	859876	10/17/24 14:32	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: EB-02-202410

Lab Sample ID: 680-256885-35

Date Collected: 10/08/24 17:00

Matrix: Water

Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	858984	10/11/24 13:37	MLL	EET SAV
	Instrument ID: CMSAH									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256885-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-01-202410
Lab Sample ID: 680-256885-36
Date Collected: 10/07/24 08:00
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	858984	10/11/24 13:58	MLL	EET SAV
	Instrument ID: CMSAH									

Client Sample ID: TB-02-202410
Lab Sample ID: 680-256885-37
Date Collected: 10/08/24 08:00
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	858984	10/11/24 14:20	MLL	EET SAV
	Instrument ID: CMSAH									

Client Sample ID: ITMW-7-202410
Lab Sample ID: 680-256885-38
Date Collected: 10/08/24 17:05
Matrix: Water
Date Received: 10/09/24 09:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860376	10/21/24 15:32	MLL	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		1	5 mL	5 mL	860376	10/21/24 18:04	MLL	EET SAV
	Instrument ID: CMSAJ									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256885-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00689	08-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256885-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET PEN
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Dissolved (DOC)	SM	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ramboll	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual	Project #:			
Site: Whirlpool Ft Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-39R-202410	10/7/24	1510	G	W	N	N	X														
~~MW-210-202410~~ MB		~~1615~~ MB																			
ITMW-20-202410		1640																			
MW-29-202410		1618																			MS/MSD
MW-29-202410-MS		1620																			
MW-29-202410-MSD		1622																			
MW-200-202410		1720																			
TMW-20-202410		1732																			
MW-211-202410		1750																			
MW-97-202410		1829																			
MW-207-202410	↓	1800	↓	↓			↓														

680-256885 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if s
☐ 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
Savannah Tunnelbar	10/8/24 1730	Ramboll		10.9.24 953	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	2.3/2.3 4.7/4.7

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ramboll	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 2 of
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:

Address: 7500 College Boulevard Suite 925	Due Date Requested:
City: Overland Park	TAT Requested (days): S+J TAT
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)
Email: dmeyer@ramboll.com	PO #:
Project Name: Whirlpool 2024 Annual	Project #:
Site: Whirlpool Ft Smith, AR	SSOW#:

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-26-202410	10/8/24	0900	G	W	N	N	X														
TMW-29-202410		0850																			
TMW-35-202410		0905																			
MW-208-202410		0950																			
MW-22-202410		1010																			
MW-60R-202410		1005																			MS/MSD
MW-60R-202410-MS		1008																			
MW-60R-202410-MSD		1010																			
MW-98-202410		1130																			
MW-209-202410		1150																			
TMW-36B-202410	↓	1050	↓	↓	↓	↓	X			X	X	X		X	X	X	X		X		

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
Savannah Thielber	10/8/24 1730	Ramboll		10-9-24 953	TS
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 Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ramboll	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 3 of
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual	Project #:			
Site: Whirlpool Ft. Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-195-202410	10/8/24	1155	G	W	N	N	X														
DUP-05-202410		1200																			
ITMW-2R-202410		1250																			
TMW-14-202410		1350																			
DUP-04-202410	↓	0905																			
DUP-01-202410	10/7/24	1640																			
MW-184-202410	10/8/24	1312																			
DUP-02-202410	1	1315																			
MW-28-202410		1330																			
MW-212-202410		1350																			
MW-27-202410	↓	1530	↓	↓	↓	↓	↓		X	X			X	X			X				

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
Savannah Thrasher	10/8/24 1730	Ramboll		10.9.24 953	
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 Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 4 of
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual	Project #:			
Site: Whirlpool Ft. Smith, AR	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 - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_Fe2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_Fe3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-206-202410	10/8/24	1540	G	W	N	N	X														
MW-203-202410	↓	1515					X														
TMW-36-202410	↓	1240					X	X		X	X	X		X	X	X	X		X		
MW-62R-202410	10/7/24	1620					X														
TMW-19-202410	10/8/24	1450					X	X		X	X			X	X	X	X		X		
EB-01-202410	10/7/24	1700					X														
EB-02-202410	10/8/24	1700					X														
TB-01-202410	10/7/24	0800					X														
TB-02-202410	10/8/24	0800					X														
ITMW-7-202410	10/8/24	1705					X														

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Savannah Thielber	10/8/24 1730	Ramboll		10-9-24 953	FTS
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 Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784378.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-256885-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/22/2024	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ MEE (Dissolved Gases)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TMW-36B-202410 (680-256885-17)	10/8/24	10:50 Central	G	Water			X	3	
TMW-36-202410 (680-256885-31)	10/8/24	12:40 Central	G	Water			X	3	
TMW-19-202410 (680-256885-33)	10/8/24	14:50 Central	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
C. Munns	10/11/24 1650	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/12/24 8:36	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2 IR10

Ver: 05/06/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784394.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-256885-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 10/23/2024	Analysis Requested		Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-27-202410 (680-256885-28)	10/8/24	15:30 Central	G	Water			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/1/24 1700				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/2/24 0945	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256885-1

Login Number: 256885

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256885-1

Login Number: 256885
List Number: 4
Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 10/12/24 05:21 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in all containers

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256885-1

Login Number: 256885
List Number: 2
Creator: Bittle, David W

List Source: Eurofins Orlando
List Creation: 10/12/24 11:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256885-1

Login Number: 256885
List Number: 3
Creator: Roberts, Darrien

List Source: Eurofins Pensacola
List Creation: 10/12/24 03:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
7500 College Boulevard
Suite 925
Overland Park, Kansas 66210

Generated 10/24/2024 10:42:13 AM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-256953-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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 Southeast, LLC Project Manager.

Authorization

Generated
10/24/2024 10:42:13 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256953-1	MW-213-202410	Water	10/08/24 17:45	10/10/24 10:30
680-256953-2	MW-183R-202410	Water	10/09/24 09:20	10/10/24 10:30
680-256953-3	MW-192-202410	Water	10/09/24 08:50	10/10/24 10:30
680-256953-4	MW-99-202410	Water	10/09/24 08:26	10/10/24 10:30
680-256953-5	TMW-30-202410	Water	10/09/24 09:15	10/10/24 10:30
680-256953-6	DUP-11-202410	Water	10/09/24 09:20	10/10/24 10:30
680-256953-7	TMW-27-202410	Water	10/09/24 09:50	10/10/24 10:30
680-256953-8	MW-186-202410	Water	10/09/24 10:20	10/10/24 10:30
680-256953-9	MW-50R-202410	Water	10/09/24 11:20	10/10/24 10:30
680-256953-10	TMW-21-202410	Water	10/09/24 11:10	10/10/24 10:30
680-256953-11	MW-176-202410	Water	10/09/24 11:45	10/10/24 10:30
680-256953-12	MW-182-202410	Water	10/09/24 10:45	10/10/24 10:30
680-256953-13	DUP-09-202410	Water	10/09/24 10:50	10/10/24 10:30
680-256953-14	MW-190-202410	Water	10/09/24 12:40	10/10/24 10:30
680-256953-15	MW-89-202410	Water	10/09/24 13:40	10/10/24 10:30
680-256953-16	MW-24-202410	Water	10/09/24 14:00	10/10/24 10:30
680-256953-17	MW-61R-202410	Water	10/09/24 13:50	10/10/24 10:30
680-256953-18	VP-07-202410	Water	10/09/24 14:50	10/10/24 10:30
680-256953-19	VP-08-202410	Water	10/09/24 14:55	10/10/24 10:30
680-256953-20	MW-202-202410	Water	10/09/24 15:15	10/10/24 10:30
680-256953-21	MW-188-202410	Water	10/09/24 15:20	10/10/24 10:30
680-256953-22	VP-12-202410	Water	10/09/24 15:55	10/10/24 10:30
680-256953-23	VP-14-202410	Water	10/09/24 16:05	10/10/24 10:30
680-256953-24	TMW-25-202410	Water	10/09/24 16:24	10/10/24 10:30
680-256953-25	MW-63R-202410	Water	10/09/24 16:35	10/10/24 10:30
680-256953-26	EB-03-202410	Water	10/09/24 17:00	10/10/24 10:30
680-256953-27	TB-03-202410	Water	10/09/24 08:00	10/10/24 10:30
680-256953-28	TB-04-202410	Water	10/09/24 08:00	10/10/24 10:30
680-256953-29	MW-92-202410	Water	10/09/24 14:55	10/10/24 10:30

Job Narrative
680-256953-1

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.

Receipt
The samples were received on 10/10/2024 10:30 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 3.9°C.

Receipt Exceptions
Chain of Custody for sample MW-61R-202410 (680-256953-17) is marked for multiple methods but only received VOC vialds for 8260D. (Per client, these additional bottles to be sent with a different submittal.)

The vials for TOC were received empty for TMW-25-202410 (680-256953-24).

GC/MS VOA
Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-190-202410 (680-256953-14) and MW-202-202410 (680-256953-20). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-860783 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC VOA
Method RSK_175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-99-202410 (680-256953-4), MW-186-202410 (680-256953-8), TMW-21-202410 (680-256953-10) and TMW-25-202410 (680-256953-24). Elevated reporting limits (RLs) are provided.

Method RSK_175: The following sample had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): MW-92-202410 (680-256953-29).

Method RSK_175: Surrogate recovery for the following sample was outside control limits by 1%: MW-92-202410 (680-256953-29). Re-extraction and/or re-analysis at a dilution was performed and surrogate recovery was within control limits.

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

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

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

General Chemistry
Method 353.2_Nitrite: The instrument blank for analytical batch 680-859094 contained Nitrite as N greater than the method detection limit (MDL), and were not reanalyzed because the result is <1/2 the reporting limit (RL). The data have been qualified and reported.

Method 353.2_Nitrite: The method blank for analytical batch 680-859094 contained Nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

Method 353.2_Nitrite: The matrix spike duplicate (MSD) recoveries for analytical batch 680-859094 were outside control limits.

Job ID: 680-256953-1 (Continued) Eurofins Savannah

Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: MW-213-202410 — Lab Sample ID: 680-256953-1

No Detections.

Client Sample ID: MW-183R-202410 — Lab Sample ID: 680-256953-2

No Detections.

Client Sample ID: MW-192-202410 — Lab Sample ID: 680-256953-3

No Detections.

Client Sample ID: MW-99-202410 — Lab Sample ID: 680-256953-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.42	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	5.2		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	4600		2.0	1.0	ug/L	2		RSK-175	Total/NA
Chloride	58		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Sulfate	16		5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	7.0		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrite as N	0.025	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	17		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	7.0		0.10	0.10	mg/L	1		SM 3500	Total/NA
Dissolved Organic Carbon	17		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: TMW-30-202410 — Lab Sample ID: 680-256953-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.7		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-11-202410 — Lab Sample ID: 680-256953-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	3.1		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	0.60	J	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-27-202410 — Lab Sample ID: 680-256953-7

No Detections.

Client Sample ID: MW-186-202410 — Lab Sample ID: 680-256953-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	3.7	ug/L	1		8260D	Total/NA
Toluene	0.61	J	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.45	J	1.0	0.40	ug/L	1		8260D	Total/NA
Methane	29000		10	5.0	ug/L	10		RSK-175	Total/NA
Ethylene	1.0		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	120		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	7.3		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrite as N	0.055	J F1 B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	11		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	7.2		0.10	0.10	mg/L	1		SM 3500	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-186-202410 (Continued)

Lab Sample ID: 680-256953-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	0.072	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	9.5		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-50R-202410

Lab Sample ID: 680-256953-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	8.2		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	20	J	25	10	mg/L	25		300.0-1993 R2.1	Total/NA
Iron	0.43		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferric Iron	0.43		0.10	0.10	mg/L	1		SM 3500	Total/NA

Client Sample ID: TMW-21-202410

Lab Sample ID: 680-256953-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.40	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.3		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	3.1		1.0	0.40	ug/L	1		8260D	Total/NA
Methane	14000		5.0	2.5	ug/L	5		RSK-175	Total/NA
Ethylene	4.8		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	250		13	5.0	mg/L	25		300.0-1993 R2.1	Total/NA
Iron	11		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.011	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.065	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	3.5		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	11		0.10	0.10	mg/L	1		SM 3500	Total/NA
Dissolved Organic Carbon	3.2		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-176-202410

Lab Sample ID: 680-256953-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.8		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.8		1.0	0.33	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene - DL	150		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-182-202410

Lab Sample ID: 680-256953-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.5		1.0	0.15	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-09-202410

Lab Sample ID: 680-256953-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.3		1.0	0.15	ug/L	1		8260D	Total/NA
Trichloroethene	16		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-190-202410

Lab Sample ID: 680-256953-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5	J	5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	490		5.0	1.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-89-202410 — Lab Sample ID: 680-256953-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.2		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	3.4	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Iron	0.15		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferric Iron	0.12		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.028	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-24-202410 — Lab Sample ID: 680-256953-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	16		1.0	0.20	ug/L	1		8260D	Total/NA
Sulfate	130		25	10	mg/L	25		300.0-1993 R2.1	Total/NA
Iron	0.021	J	0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.88		0.20	0.020	mg/L	2		353.2	Total/NA
Nitrite as N	0.032	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.85		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA

Client Sample ID: MW-61R-202410 — Lab Sample ID: 680-256953-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45		10	3.7	ug/L	1		8260D	Total/NA
Trichloroethene	1.4		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: VP-07-202410 — Lab Sample ID: 680-256953-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	65		10	3.7	ug/L	1		8260D	Total/NA
Benzene	0.44	J	1.0	0.27	ug/L	1		8260D	Total/NA
Trichloroethene	6.2		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: VP-08-202410 — Lab Sample ID: 680-256953-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.76	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	11		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-202-202410 — Lab Sample ID: 680-256953-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	32		2.0	0.50	ug/L	2		8260D	Total/NA
1,1-Dichloroethene	3.1		2.0	0.66	ug/L	2		8260D	Total/NA
Trichloroethene	350		2.0	0.40	ug/L	2		8260D	Total/NA

Client Sample ID: MW-188-202410 — Lab Sample ID: 680-256953-21

No Detections.

Client Sample ID: VP-12-202410 — Lab Sample ID: 680-256953-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	12		1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: VP-14-202410 — Lab Sample ID: 680-256953-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		10	3.7	ug/L	1		8260D	Total/NA
Chlorobenzene	1.1		1.0	0.15	ug/L	1		8260D	Total/NA
Toluene	4.2		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.9		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-25-202410 — Lab Sample ID: 680-256953-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.2	J	10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.99	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	4.8		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	14000		5.0	2.5	ug/L	5		RSK-175	Total/NA
Ethylene	1.8		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	84		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Sulfate	7.1		5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	16		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.097	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.033	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	7.7		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.064	J	0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	16		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.042	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	7.5		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-63R-202410 — Lab Sample ID: 680-256953-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	4.1		1.0	0.15	ug/L	1		8260D	Total/NA
Trichloroethene	11		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: EB-03-202410 — Lab Sample ID: 680-256953-26

No Detections.

Client Sample ID: TB-03-202410 — Lab Sample ID: 680-256953-27

No Detections.

Client Sample ID: TB-04-202410 — Lab Sample ID: 680-256953-28

No Detections.

Client Sample ID: MW-92-202410 — Lab Sample ID: 680-256953-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	83		5.0	1.3	ug/L	5		8260D	Total/NA
1,1-Dichloroethene	7.4		5.0	1.7	ug/L	5		8260D	Total/NA
Trichloroethene	870		5.0	1.0	ug/L	5		8260D	Total/NA
Ethylene	210		5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane - DL	2200		50	30	ug/L	10		RSK-175	Total/NA
Sulfate	42	J	50	20	mg/L	50		300.0-1993 R2.1	Total/NA
Iron	56		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrite as N	0.077	J B	0.10	0.010	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-92-202410 (Continued) **Lab Sample ID: 680-256953-29**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	0.65	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-213-202410

Lab Sample ID: 680-256953-1

Date Collected: 10/08/24 17:45

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:50	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:50	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:50	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:50	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:50	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:50	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:50	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:50	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:50	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:50	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:50	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:50	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:50	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:50	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:50	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:50	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:50	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:50	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:50	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:50	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:50	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:50	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:50	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:50	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:50	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:50	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:50	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/16/24 16:50*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*69*		*60 - 124*		*10/16/24 16:50*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/16/24 16:50*	*1*

Client Sample ID: MW-183R-202410

Lab Sample ID: 680-256953-2

Date Collected: 10/09/24 09:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 14:57	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 14:57	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 14:57	1
Bromoform	<0.59	F2	1.0	0.59	ug/L			10/23/24 14:57	1
Bromomethane	<3.7	F2 F1	5.0	3.7	ug/L			10/23/24 14:57	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 14:57	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 14:57	1
Chloroethane	<4.6	F2 F1	5.0	4.6	ug/L			10/23/24 14:57	1

Client Sample ID: MW-183R-202410

Lab Sample ID: 680-256953-2

Date Collected: 10/09/24 09:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 14:57	1
Chloromethane	<0.54	F2 F1	1.0	0.54	ug/L			10/23/24 14:57	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/24 14:57	1
cis-1,3-Dichloropropene	<0.26	F2	1.0	0.26	ug/L			10/23/24 14:57	1
Dibromochloromethane	<0.39	F2	1.0	0.39	ug/L			10/23/24 14:57	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 14:57	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 14:57	1
1,1-Dichloroethene	<0.33	F2	1.0	0.33	ug/L			10/23/24 14:57	1
1,3-Dichloropropene, Total	<0.48	F2	2.0	0.48	ug/L			10/23/24 14:57	1
Ethylbenzene	<0.20	F2	1.0	0.20	ug/L			10/23/24 14:57	1
4-Methyl-2-pentanone (MIBK)	<2.7	F1	10	2.7	ug/L			10/23/24 14:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 14:57	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 14:57	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 14:57	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 14:57	1
trans-1,3-Dichloropropene	<0.23	F2	1.0	0.23	ug/L			10/23/24 14:57	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 14:57	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 14:57	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/23/24 14:57	1
Vinyl chloride	<0.40	F2 F1	1.0	0.40	ug/L			10/23/24 14:57	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/23/24 14:57*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/24 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/23/24 14:57*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/23/24 14:57*	*1*

Client Sample ID: MW-192-202410

Lab Sample ID: 680-256953-3

Date Collected: 10/09/24 08:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:11	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 17:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:11	1

Client Sample ID: MW-192-202410

Lab Sample ID: 680-256953-3

Date Collected: 10/09/24 08:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 17:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:11	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:11	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 17:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:11	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/16/24 17:11*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*60 - 124*		*10/16/24 17:11*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 17:11*	*1*

Client Sample ID: MW-99-202410

Lab Sample ID: 680-256953-4

Date Collected: 10/09/24 08:26

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:32	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:32	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:32	1
cis-1,2-Dichloroethene	**12**		1.0	0.25	ug/L			10/16/24 17:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:32	1
Toluene	**0.42**	**J**	1.0	0.25	ug/L			10/16/24 17:32	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:32	1

Client Sample ID: MW-99-202410
Date Collected: 10/09/24 08:26
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:32	1
Trichloroethene	**5.2**		1.0	0.20	ug/L			10/16/24 17:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/16/24 17:32*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 17:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 17:32*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/24 17:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4600**		2.0	1.0	ug/L			10/17/24 17:10	2
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 13:04	1
Ethylene	<0.55		1.0	0.55	ug/L			10/17/24 13:04	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58**		2.5	1.0	mg/L			10/17/24 17:01	5
Sulfate	**16**		5.0	2.0	mg/L			10/17/24 17:01	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.0**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	<0.010		0.10	0.010	mg/L			10/16/24 00:04	1
Nitrite as N (EPA 353.2)	**0.025**	**J B**	0.10	0.010	mg/L			10/10/24 17:05	1
Total Organic Carbon (SM 5310 B-2011)	**17**		1.0	0.50	mg/L			10/15/24 00:23	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	**7.0**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**17**		1.0	0.50	mg/L			10/13/24 00:35	1

Client Sample ID: TMW-30-202410

Lab Sample ID: 680-256953-5

Date Collected: 10/09/24 09:15

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 17:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 17:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 17:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 17:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 17:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 17:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 17:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 17:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 17:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 17:53	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 17:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 17:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 17:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 17:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 17:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 17:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 17:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 17:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 17:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 17:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 17:53	1
Toluene	**2.9**		1.0	0.25	ug/L			10/16/24 17:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 17:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 17:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 17:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 17:53	1
Trichloroethene	**2.7**		1.0	0.20	ug/L			10/16/24 17:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 17:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/24 17:53*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*72*		*60 - 124*		*10/16/24 17:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 17:53*	*1*

Client Sample ID: DUP-11-202410

Lab Sample ID: 680-256953-6

Date Collected: 10/09/24 09:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 18:14	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 18:14	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 18:14	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 18:14	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 18:14	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 18:14	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 18:14	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 18:14	1

Client Sample ID: DUP-11-202410

Lab Sample ID: 680-256953-6

Date Collected: 10/09/24 09:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 18:14	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 18:14	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 18:14	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 18:14	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 18:14	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 18:14	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 18:14	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 18:14	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 18:14	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 18:14	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 18:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 18:14	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 18:14	1
Toluene	**2.8**		1.0	0.25	ug/L			10/16/24 18:14	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 18:14	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 18:14	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 18:14	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 18:14	1
Trichloroethene	**3.1**		1.0	0.20	ug/L			10/16/24 18:14	1
Vinyl chloride	**0.60**	**J**	1.0	0.40	ug/L			10/16/24 18:14	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/24 18:14*	*1*
Dibromofluoromethane (Surr)	*75*		*70 - 130*		*10/16/24 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*73*		*60 - 124*		*10/16/24 18:14*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 18:14*	*1*

Client Sample ID: TMW-27-202410

Lab Sample ID: 680-256953-7

Date Collected: 10/09/24 09:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 18:35	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 18:35	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 18:35	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 18:35	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 18:35	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 18:35	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 18:35	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 18:35	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 18:35	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 18:35	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 18:35	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 18:35	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 18:35	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 18:35	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 18:35	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 18:35	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: TMW-27-202410

Lab Sample ID: 680-256953-7

Date Collected: 10/09/24 09:50
Matrix: Water
Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 18:35	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 18:35	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 18:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 18:35	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 18:35	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 18:35	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 18:35	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 18:35	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 18:35	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 18:35	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 18:35	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 18:35	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/16/24 18:35*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 18:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*72*		*60 - 124*		*10/16/24 18:35*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 18:35*	*1*

Client Sample ID: MW-186-202410

Lab Sample ID: 680-256953-8

Date Collected: 10/09/24 10:20
Matrix: Water
Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.4**	**J**	10	3.7	ug/L			10/16/24 18:56	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 18:56	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 18:56	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 18:56	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 18:56	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 18:56	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 18:56	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 18:56	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 18:56	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 18:56	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 18:56	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 18:56	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 18:56	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 18:56	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 18:56	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 18:56	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 18:56	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 18:56	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 18:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 18:56	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 18:56	1
Toluene	**0.61**	**J**	1.0	0.25	ug/L			10/16/24 18:56	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 18:56	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 18:56	1

Client Sample ID: MW-186-202410
Date Collected: 10/09/24 10:20
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 18:56	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 18:56	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 18:56	1
Vinyl chloride	**0.45**	**J**	1.0	0.40	ug/L			10/16/24 18:56	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/16/24 18:56*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 18:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 18:56*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/16/24 18:56*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**29000**		10	5.0	ug/L			10/17/24 17:29	10
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 13:14	1
Ethylene	**1.0**		1.0	0.55	ug/L			10/17/24 13:14	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		5.0	2.0	mg/L			10/17/24 17:07	10
Sulfate	<4.0		10	4.0	mg/L			10/17/24 17:07	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.3**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	<0.010		0.10	0.010	mg/L			10/16/24 00:06	1
Nitrite as N (EPA 353.2)	**0.055**	**J F1 B**	0.10	0.010	mg/L			10/10/24 16:59	1
Total Organic Carbon (SM 5310 B-2011)	**11**		1.0	0.50	mg/L			10/15/24 00:56	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	**7.2**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	**0.072**	**J HF**	0.10	0.025	mg/L			10/15/24 12:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**9.5**		1.0	0.50	mg/L			10/13/24 00:54	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: MW-50R-202410
Date Collected: 10/09/24 11:20
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 19:17	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 19:17	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 19:17	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 19:17	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 19:17	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 19:17	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 19:17	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 19:17	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 19:17	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 19:17	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 19:17	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 19:17	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 19:17	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 19:17	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 19:17	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 19:17	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 19:17	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 19:17	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 19:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 19:17	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 19:17	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 19:17	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 19:17	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 19:17	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 19:17	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 19:17	1
Trichloroethene	**1.1**		1.0	0.20	ug/L			10/16/24 19:17	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 19:17	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/16/24 19:17*	*1*
Dibromofluoromethane (Surr)	*72*		*70 - 130*		*10/16/24 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 19:17*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/16/24 19:17*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 21:50	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 21:50	1
Ethylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 21:50	1
Methane	**8.2**		5.0	3.0	ug/L		10/16/24 14:18	10/16/24 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*10/16/24 14:18*	*10/16/24 21:50*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**20**	**J**	25	10	mg/L			10/17/24 17:13	25

Client Sample ID: MW-50R-202410

Lab Sample ID: 680-256953-9

Date Collected: 10/09/24 11:20

Matrix: Water

Date Received: 10/10/24 10:30

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.43**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	**0.43**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:51	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/15/24 15:30	1

Client Sample ID: TMW-21-202410

Lab Sample ID: 680-256953-10

Date Collected: 10/09/24 11:10

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 19:38	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 19:38	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 19:38	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 19:38	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 19:38	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 19:38	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 19:38	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 19:38	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 19:38	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 19:38	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 19:38	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 19:38	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 19:38	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 19:38	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 19:38	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 19:38	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 19:38	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 19:38	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 19:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 19:38	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 19:38	1
Toluene	**0.40**	**J**	1.0	0.25	ug/L			10/16/24 19:38	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 19:38	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 19:38	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 19:38	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 19:38	1
Trichloroethene	**1.3**		1.0	0.20	ug/L			10/16/24 19:38	1
Vinyl chloride	**3.1**		1.0	0.40	ug/L			10/16/24 19:38	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/24 19:38*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 19:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 19:38*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 19:38*	*1*

Client Sample ID: TMW-21-202410

Lab Sample ID: 680-256953-10

Date Collected: 10/09/24 11:10

Matrix: Water

Date Received: 10/10/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**14000**		5.0	2.5	ug/L			10/17/24 17:40	5
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 13:37	1
Ethylene	**4.8**		1.0	0.55	ug/L			10/17/24 13:37	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		13	5.0	mg/L			10/17/24 17:20	25
Sulfate	<10		25	10	mg/L			10/17/24 17:20	25

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**11**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.011**	**J**	0.10	0.010	mg/L			10/16/24 00:08	1
Nitrite as N (EPA 353.2)	**0.065**	**J B**	0.10	0.010	mg/L			10/10/24 17:02	1
Total Organic Carbon (SM 5310 B-2011)	**3.5**		1.0	0.50	mg/L			10/15/24 01:14	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	**11**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**3.2**		1.0	0.50	mg/L			10/13/24 01:12	1

Client Sample ID: MW-176-202410

Lab Sample ID: 680-256953-11

Date Collected: 10/09/24 11:45

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 19:59	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 19:59	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 19:59	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 19:59	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 19:59	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 19:59	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 19:59	1

Client Sample ID: MW-176-202410

Lab Sample ID: 680-256953-11

Date Collected: 10/09/24 11:45

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 19:59	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 19:59	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 19:59	1
cis-1,2-Dichloroethene	**9.8**		1.0	0.25	ug/L			10/16/24 19:59	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 19:59	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 19:59	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 19:59	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 19:59	1
1,1-Dichloroethene	**1.8**		1.0	0.33	ug/L			10/16/24 19:59	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 19:59	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 19:59	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 19:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 19:59	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 19:59	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 19:59	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 19:59	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 19:59	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 19:59	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 19:59	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/16/24 19:59	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/24 19:59*	*1*
Dibromofluoromethane (Surr)	*74*		*70 - 130*		*10/16/24 19:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 19:59*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/24 19:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**150**		1.0	0.20	ug/L			10/23/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/23/24 14:36*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/23/24 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/23/24 14:36*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/24 14:36*	*1*

Client Sample ID: MW-182-202410

Lab Sample ID: 680-256953-12

Date Collected: 10/09/24 10:45

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 20:20	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 20:20	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 20:20	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 20:20	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 20:20	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 20:20	1
Chlorobenzene	**4.5**		1.0	0.15	ug/L			10/16/24 20:20	1

Client Sample ID: MW-182-202410

Lab Sample ID: 680-256953-12

Date Collected: 10/09/24 10:45

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 20:20	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 20:20	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 20:20	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 20:20	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 20:20	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 20:20	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 20:20	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 20:20	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 20:20	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 20:20	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 20:20	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 20:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 20:20	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 20:20	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 20:20	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 20:20	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 20:20	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 20:20	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 20:20	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 15:03	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 20:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/24 20:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/24 15:03*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 20:20*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/24 15:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 20:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/24 15:03*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 20:20*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/24 15:03*	*1*

Client Sample ID: DUP-09-202410

Lab Sample ID: 680-256953-13

Date Collected: 10/09/24 10:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 20:41	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 20:41	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 20:41	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 20:41	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 20:41	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 20:41	1
Chlorobenzene	**4.3**		1.0	0.15	ug/L			10/16/24 20:41	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 20:41	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 20:41	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 20:41	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 20:41	1

Client Sample ID: DUP-09-202410

Lab Sample ID: 680-256953-13

Date Collected: 10/09/24 10:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 20:41	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 20:41	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 20:41	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 20:41	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 20:41	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 20:41	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 20:41	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 20:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 20:41	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 20:41	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 20:41	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 20:41	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 20:41	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 20:41	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 20:41	1
Trichloroethene	**16**		1.0	0.20	ug/L			10/22/24 18:40	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 20:41	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/24 20:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/24 18:40*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 20:41*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/24 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*60 - 124*		*10/16/24 20:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/22/24 18:40*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/16/24 20:41*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/24 18:40*	*1*

Client Sample ID: MW-190-202410

Lab Sample ID: 680-256953-14

Date Collected: 10/09/24 12:40

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		50	19	ug/L			10/16/24 21:47	5
Benzene	<1.4		5.0	1.4	ug/L			10/16/24 21:47	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/16/24 21:47	5
Bromoform	<3.0		5.0	3.0	ug/L			10/16/24 21:47	5
Bromomethane	<19		25	19	ug/L			10/16/24 21:47	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/16/24 21:47	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/16/24 21:47	5
Chloroethane	<23		25	23	ug/L			10/16/24 21:47	5
Chloroform	<1.4		5.0	1.4	ug/L			10/16/24 21:47	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/16/24 21:47	5
cis-1,2-Dichloroethene	**1.5**	**J**	5.0	1.3	ug/L			10/16/24 21:47	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/16/24 21:47	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/16/24 21:47	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/16/24 21:47	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/16/24 21:47	5

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: MW-190-202410

Lab Sample ID: 680-256953-14

Date Collected: 10/09/24 12:40
Matrix: Water
Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/16/24 21:47	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/16/24 21:47	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/16/24 21:47	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/16/24 21:47	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/16/24 21:47	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/16/24 21:47	5
Toluene	<1.3		5.0	1.3	ug/L			10/16/24 21:47	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/16/24 21:47	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/16/24 21:47	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/16/24 21:47	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/16/24 21:47	5
Trichloroethene	**490**		5.0	1.0	ug/L			10/16/24 21:47	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/16/24 21:47	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/16/24 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/24 21:47*	*5*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 21:47*	*5*
1,2-Dichloroethane-d4 (Surr)	*71*		*60 - 124*		*10/16/24 21:47*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/16/24 21:47*	*5*

Client Sample ID: MW-89-202410

Lab Sample ID: 680-256953-15

Date Collected: 10/09/24 13:40
Matrix: Water
Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 21:02	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 21:02	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 21:02	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 21:02	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 21:02	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 21:02	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 21:02	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 21:02	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 21:02	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 21:02	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 21:02	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 21:02	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 21:02	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 21:02	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 21:02	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 21:02	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 21:02	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 21:02	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 21:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 21:02	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 21:02	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 21:02	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 21:02	1

Client Sample ID: MW-89-202410

Lab Sample ID: 680-256953-15

Date Collected: 10/09/24 13:40

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 21:02	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 21:02	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 21:02	1
Trichloroethene	**3.2**		1.0	0.20	ug/L			10/16/24 21:02	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 21:02	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/24 21:02*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 21:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 21:02*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/16/24 21:02*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:08	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:08	1
Ethylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:08	1
Methane	**3.4**	**J**	5.0	3.0	ug/L		10/16/24 14:18	10/16/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*58*		*43 - 133*	*10/16/24 14:18*	*10/16/24 22:08*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<2.0		5.0	2.0	mg/L			10/17/24 17:26	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.15**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	**0.12**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	**0.028**	**J HF**	0.10	0.025	mg/L			10/15/24 12:35	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/15/24 15:30	1

Client Sample ID: MW-24-202410

Lab Sample ID: 680-256953-16

Date Collected: 10/09/24 14:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 21:23	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 21:23	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 21:23	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 21:23	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 21:23	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 21:23	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 21:23	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 21:23	1

Client Sample ID: MW-24-202410
Date Collected: 10/09/24 14:00
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 21:23	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 21:23	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 21:23	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 21:23	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 21:23	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 21:23	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 21:23	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 21:23	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 21:23	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 21:23	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 21:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 21:23	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 21:23	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 21:23	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 21:23	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 21:23	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 21:23	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 21:23	1
Trichloroethene	**16**		1.0	0.20	ug/L			10/16/24 21:23	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 21:23	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/24 21:23*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 21:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 21:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/24 21:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:26	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:26	1
Ethylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:26	1
Methane	<3.0		5.0	3.0	ug/L		10/16/24 14:18	10/16/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*52*		*43 - 133*	*10/16/24 14:18*	*10/16/24 22:26*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**130**		25	10	mg/L			10/17/24 17:33	25

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.021**	**J**	0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.88**		0.20	0.020	mg/L			10/16/24 00:10	2
Nitrite as N (EPA 353.2)	**0.032**	**J B**	0.10	0.010	mg/L			10/10/24 17:03	1
Nitrate as N (SM Nitrate by calc)	**0.85**		0.10	0.010	mg/L			10/17/24 14:27	1

Client Sample ID: MW-24-202410

Lab Sample ID: 680-256953-16

Date Collected: 10/09/24 14:00

Matrix: Water

Date Received: 10/10/24 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:27	1

Client Sample ID: MW-61R-202410

Lab Sample ID: 680-256953-17

Date Collected: 10/09/24 13:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**45**		10	3.7	ug/L			10/22/24 15:45	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 15:45	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 15:45	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 15:45	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 15:45	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 15:45	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 15:45	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 15:45	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 15:45	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 15:45	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 15:45	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 15:45	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 15:45	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 15:45	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 15:45	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 15:45	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 15:45	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 15:45	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 15:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 15:45	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 15:45	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 15:45	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 15:45	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 15:45	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 15:45	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 15:45	1
Trichloroethene	**1.4**		1.0	0.20	ug/L			10/22/24 15:45	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 15:45	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/24 15:45*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/24 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/24 15:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/24 15:45*	*1*

Client Sample ID: VP-07-202410

Lab Sample ID: 680-256953-18

Date Collected: 10/09/24 14:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**65**		10	3.7	ug/L			10/22/24 16:07	1

Client Sample ID: VP-07-202410

Lab Sample ID: 680-256953-18

Date Collected: 10/09/24 14:50

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.44**	**J**	1.0	0.27	ug/L			10/22/24 16:07	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 16:07	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 16:07	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 16:07	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 16:07	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 16:07	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 16:07	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 16:07	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 16:07	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 16:07	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 16:07	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 16:07	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 16:07	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 16:07	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 16:07	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 16:07	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 16:07	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 16:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 16:07	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 16:07	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 16:07	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 16:07	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 16:07	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 16:07	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 16:07	1
Trichloroethene	**6.2**		1.0	0.20	ug/L			10/22/24 16:07	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 16:07	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/22/24 16:07*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/24 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/24 16:07*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/24 16:07*	*1*

Client Sample ID: VP-08-202410

Lab Sample ID: 680-256953-19

Date Collected: 10/09/24 14:55

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 16:28	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 16:28	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 16:28	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 16:28	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 16:28	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 16:28	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 16:28	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 16:28	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 16:28	1

Client Sample ID: VP-08-202410

Lab Sample ID: 680-256953-19

Date Collected: 10/09/24 14:55

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 16:28	1
cis-1,2-Dichloroethene	**0.76**	**J**	1.0	0.25	ug/L			10/22/24 16:28	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 16:28	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 16:28	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 16:28	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 16:28	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 16:28	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 16:28	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 16:28	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 16:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 16:28	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 16:28	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 16:28	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 16:28	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 16:28	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 16:28	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 16:28	1
Trichloroethene	**11**		1.0	0.20	ug/L			10/22/24 16:28	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 16:28	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/24 16:28*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/24 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/24 16:28*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/24 16:28*	*1*

Client Sample ID: MW-202-202410

Lab Sample ID: 680-256953-20

Date Collected: 10/09/24 15:15

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.4		20	7.4	ug/L			10/23/24 15:21	2
Benzene	<0.54		2.0	0.54	ug/L			10/23/24 15:21	2
Bromochloromethane	<0.68		2.0	0.68	ug/L			10/23/24 15:21	2
Bromoform	<1.2		2.0	1.2	ug/L			10/23/24 15:21	2
Bromomethane	<7.4		10	7.4	ug/L			10/23/24 15:21	2
Carbon tetrachloride	<0.60		2.0	0.60	ug/L			10/23/24 15:21	2
Chlorobenzene	<0.30		2.0	0.30	ug/L			10/23/24 15:21	2
Chloroethane	<9.2		10	9.2	ug/L			10/23/24 15:21	2
Chloroform	<0.54		2.0	0.54	ug/L			10/23/24 15:21	2
Chloromethane	<1.1		2.0	1.1	ug/L			10/23/24 15:21	2
cis-1,2-Dichloroethene	**32**		2.0	0.50	ug/L			10/23/24 15:21	2
cis-1,3-Dichloropropene	<0.52		2.0	0.52	ug/L			10/23/24 15:21	2
Dibromochloromethane	<0.78		2.0	0.78	ug/L			10/23/24 15:21	2
1,1-Dichloroethane	<0.66		2.0	0.66	ug/L			10/23/24 15:21	2
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			10/23/24 15:21	2
1,1-Dichloroethene	**3.1**		2.0	0.66	ug/L			10/23/24 15:21	2
1,3-Dichloropropene, Total	<0.96		4.0	0.96	ug/L			10/23/24 15:21	2

Client Sample ID: MW-202-202410

Lab Sample ID: 680-256953-20

Date Collected: 10/09/24 15:15

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.40		2.0	0.40	ug/L			10/23/24 15:21	2
4-Methyl-2-pentanone (MIBK)	<5.4		20	5.4	ug/L			10/23/24 15:21	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			10/23/24 15:21	2
Tetrachloroethene	<0.70		2.0	0.70	ug/L			10/23/24 15:21	2
Toluene	<0.50		2.0	0.50	ug/L			10/23/24 15:21	2
trans-1,2-Dichloroethene	<0.68		2.0	0.68	ug/L			10/23/24 15:21	2
trans-1,3-Dichloropropene	<0.46		2.0	0.46	ug/L			10/23/24 15:21	2
1,1,1-Trichloroethane	<0.42		2.0	0.42	ug/L			10/23/24 15:21	2
1,1,2-Trichloroethane	<0.64		2.0	0.64	ug/L			10/23/24 15:21	2
Trichloroethene	**350**		2.0	0.40	ug/L			10/23/24 15:21	2
Vinyl chloride	<0.80		2.0	0.80	ug/L			10/23/24 15:21	2
Xylenes, Total	<0.46		2.0	0.46	ug/L			10/23/24 15:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/23/24 15:21*	*2*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/23/24 15:21*	*2*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/23/24 15:21*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/24 15:21*	*2*

Client Sample ID: MW-188-202410

Lab Sample ID: 680-256953-21

Date Collected: 10/09/24 15:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 16:50	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 16:50	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 16:50	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 16:50	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 16:50	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 16:50	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 16:50	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 16:50	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 16:50	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 16:50	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 16:50	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 16:50	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 16:50	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 16:50	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 16:50	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 16:50	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 16:50	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 16:50	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 16:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 16:50	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 16:50	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 16:50	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 16:50	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 16:50	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 16:50	1

Client Sample ID: MW-188-202410

Lab Sample ID: 680-256953-21

Date Collected: 10/09/24 15:20

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 16:50	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 16:50	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 16:50	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/24 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/24 16:50*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/24 16:50*	*1*

Client Sample ID: VP-12-202410

Lab Sample ID: 680-256953-22

Date Collected: 10/09/24 15:55

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 17:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 17:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 17:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 17:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 17:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 17:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 17:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 17:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 17:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 17:11	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 17:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 17:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 17:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 17:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 17:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 17:11	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 17:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 17:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 17:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 17:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 17:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 17:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 17:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 17:11	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 17:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 17:11	1
Trichloroethene	**12**		1.0	0.20	ug/L			10/22/24 17:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 17:11	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/24 17:11*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/24 17:11*	*1*

Client Sample ID: VP-12-202410

Lab Sample ID: 680-256953-22

Date Collected: 10/09/24 15:55

Matrix: Water

Date Received: 10/10/24 10:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/24 17:11*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/24 17:11*	*1*

Client Sample ID: VP-14-202410

Lab Sample ID: 680-256953-23

Date Collected: 10/09/24 16:05

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**16**		10	3.7	ug/L			10/22/24 17:33	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 17:33	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 17:33	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 17:33	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 17:33	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 17:33	1
Chlorobenzene	**1.1**		1.0	0.15	ug/L			10/22/24 17:33	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 17:33	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 17:33	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 17:33	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 17:33	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 17:33	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 17:33	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 17:33	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 17:33	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 17:33	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 17:33	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 17:33	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 17:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 17:33	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 17:33	1
Toluene	**4.2**		1.0	0.25	ug/L			10/22/24 17:33	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 17:33	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 17:33	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 17:33	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 17:33	1
Trichloroethene	**1.9**		1.0	0.20	ug/L			10/22/24 17:33	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 17:33	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/22/24 17:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/24 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/24 17:33*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/24 17:33*	*1*

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-256953-1

Client Sample ID: TMW-25-202410
Date Collected: 10/09/24 16:24
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.2**	**J**	10	3.7	ug/L			10/22/24 17:54	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 17:54	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 17:54	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 17:54	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 17:54	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 17:54	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 17:54	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 17:54	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 17:54	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 17:54	1
cis-1,2-Dichloroethene	**0.99**	**J**	1.0	0.25	ug/L			10/22/24 17:54	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 17:54	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 17:54	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 17:54	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 17:54	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 17:54	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 17:54	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 17:54	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 17:54	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 17:54	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 17:54	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 17:54	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 17:54	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 17:54	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 17:54	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 17:54	1
Trichloroethene	**4.8**		1.0	0.20	ug/L			10/22/24 17:54	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 17:54	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/24 17:54*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/24 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/24 17:54*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/22/24 17:54*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**14000**		5.0	2.5	ug/L			10/17/24 17:50	5
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 13:47	1
Ethylene	**1.8**		1.0	0.55	ug/L			10/17/24 13:47	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84**		2.5	1.0	mg/L			10/17/24 18:13	5
Sulfate	**7.1**		5.0	2.0	mg/L			10/17/24 18:13	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1

Client Sample ID: TMW-25-202410

Lab Sample ID: 680-256953-24

Date Collected: 10/09/24 16:24

Matrix: Water

Date Received: 10/10/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**16**		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.097**	**J**	0.10	0.010	mg/L			10/16/24 00:12	1
Nitrite as N (EPA 353.2)	**0.033**	**J B**	0.10	0.010	mg/L			10/10/24 17:04	1
Total Organic Carbon (SM 5310 B-2011)	**7.7**		1.0	0.50	mg/L			10/17/24 05:29	1
Nitrate as N (SM Nitrate by calc)	**0.064**	**J**	0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	**16**		0.10	0.10	mg/L			10/21/24 10:50	1
Ferrous Iron (SM 3500 FE D)	**0.042**	**J HF**	0.10	0.025	mg/L			10/15/24 12:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**7.5**		1.0	0.50	mg/L			10/13/24 01:30	1

Client Sample ID: MW-63R-202410

Lab Sample ID: 680-256953-25

Date Collected: 10/09/24 16:35

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 18:16	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 18:16	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 18:16	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 18:16	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 18:16	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 18:16	1
Chlorobenzene	**4.1**		1.0	0.15	ug/L			10/22/24 18:16	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 18:16	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 18:16	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 18:16	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 18:16	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 18:16	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 18:16	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 18:16	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 18:16	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 18:16	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 18:16	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 18:16	1

Client Sample ID: MW-63R-202410

Lab Sample ID: 680-256953-25

Date Collected: 10/09/24 16:35

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 18:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 18:16	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 18:16	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 18:16	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 18:16	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 18:16	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 18:16	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 18:16	1
Trichloroethene	**11**		1.0	0.20	ug/L			10/22/24 18:16	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 18:16	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/22/24 18:16*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/24 18:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/22/24 18:16*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/22/24 18:16*	*1*

Client Sample ID: EB-03-202410

Lab Sample ID: 680-256953-26

Date Collected: 10/09/24 17:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 13:03	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 13:03	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 13:03	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 13:03	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 13:03	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 13:03	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 13:03	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 13:03	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 13:03	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 13:03	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 13:03	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 13:03	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 13:03	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 13:03	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 13:03	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 13:03	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 13:03	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 13:03	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 13:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 13:03	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 13:03	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 13:03	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 13:03	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 13:03	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 13:03	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 13:03	1

Client Sample ID: EB-03-202410

Lab Sample ID: 680-256953-26

Date Collected: 10/09/24 17:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 13:03	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 13:03	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/22/24 13:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/24 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/22/24 13:03*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/24 13:03*	*1*

Client Sample ID: TB-03-202410

Lab Sample ID: 680-256953-27

Date Collected: 10/09/24 08:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 13:25	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 13:25	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 13:25	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 13:25	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 13:25	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 13:25	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 13:25	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 13:25	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 13:25	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 13:25	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 13:25	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 13:25	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 13:25	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 13:25	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 13:25	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 13:25	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 13:25	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 13:25	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 13:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 13:25	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 13:25	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 13:25	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 13:25	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 13:25	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 13:25	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 13:25	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 13:25	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 13:25	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/24 13:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/22/24 13:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/24 13:25*	*1*

Client Sample ID: TB-03-202410

Lab Sample ID: 680-256953-27

Date Collected: 10/09/24 08:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/24 13:25*	*1*

Client Sample ID: TB-04-202410

Lab Sample ID: 680-256953-28

Date Collected: 10/09/24 08:00

Matrix: Water

Date Received: 10/10/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 13:46	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 13:46	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 13:46	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 13:46	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 13:46	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 13:46	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 13:46	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 13:46	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 13:46	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 13:46	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 13:46	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 13:46	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 13:46	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 13:46	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 13:46	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 13:46	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 13:46	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 13:46	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 13:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 13:46	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 13:46	1
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 13:46	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 13:46	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 13:46	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 13:46	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 13:46	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 13:46	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 13:46	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/24 13:46*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/24 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/24 13:46*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/24 13:46*	*1*

Client Sample ID: MW-92-202410
Date Collected: 10/09/24 14:55
Date Received: 10/10/24 10:30

Lab Sample ID: 680-256953-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		50	19	ug/L			10/22/24 19:04	5
Benzene	<1.4		5.0	1.4	ug/L			10/22/24 19:04	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/22/24 19:04	5
Bromoform	<3.0		5.0	3.0	ug/L			10/22/24 19:04	5
Bromomethane	<19		25	19	ug/L			10/22/24 19:04	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/22/24 19:04	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/22/24 19:04	5
Chloroethane	<23		25	23	ug/L			10/22/24 19:04	5
Chloroform	<1.4		5.0	1.4	ug/L			10/22/24 19:04	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/22/24 19:04	5
cis-1,2-Dichloroethene	**83**		5.0	1.3	ug/L			10/22/24 19:04	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/22/24 19:04	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/22/24 19:04	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/22/24 19:04	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/22/24 19:04	5
1,1-Dichloroethene	**7.4**		5.0	1.7	ug/L			10/22/24 19:04	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/22/24 19:04	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/22/24 19:04	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/22/24 19:04	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/22/24 19:04	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/22/24 19:04	5
Toluene	<1.3		5.0	1.3	ug/L			10/22/24 19:04	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/22/24 19:04	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/22/24 19:04	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/22/24 19:04	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/22/24 19:04	5
Trichloroethene	**870**		5.0	1.0	ug/L			10/22/24 19:04	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/22/24 19:04	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/22/24 19:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/24 19:04*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/24 19:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/22/24 19:04*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/24 19:04*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:44	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:44	1
Ethylene	**210**		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*42*	*S1-*	*43 - 133*	*10/16/24 14:18*	*10/16/24 22:44*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2200**		50	30	ug/L		10/17/24 11:01	10/17/24 17:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*75*		*43 - 133*	*10/17/24 11:01*	*10/17/24 17:24*	*10*

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-92-202410
Lab Sample ID: 680-256953-29
Date Collected: 10/09/24 14:55
Matrix: Water
Date Received: 10/10/24 10:30

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	42	J	50	20	mg/L			10/17/24 18:19	50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	56		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	<0.010		0.10	0.010	mg/L			10/16/24 00:13	1
Nitrite as N (EPA 353.2)	0.077	J B	0.10	0.010	mg/L			10/10/24 17:05	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/17/24 14:27	1
Ferrous Iron (SM 3500 FE D)	0.65	HF	0.10	0.025	mg/L			10/15/24 12:27	1

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

Lab Sample ID: MB 680-859716/10
Matrix: Water
Analysis Batch: 859716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/16/24 16:08	1
Benzene	<0.27		1.0	0.27	ug/L			10/16/24 16:08	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/16/24 16:08	1
Bromoform	<0.59		1.0	0.59	ug/L			10/16/24 16:08	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/16/24 16:08	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/16/24 16:08	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/16/24 16:08	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/16/24 16:08	1
Chloroform	<0.27		1.0	0.27	ug/L			10/16/24 16:08	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/16/24 16:08	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/16/24 16:08	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/16/24 16:08	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/16/24 16:08	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/16/24 16:08	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/16/24 16:08	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/16/24 16:08	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/16/24 16:08	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/16/24 16:08	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/16/24 16:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/16/24 16:08	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/16/24 16:08	1
Toluene	<0.25		1.0	0.25	ug/L			10/16/24 16:08	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/16/24 16:08	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/16/24 16:08	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/16/24 16:08	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/16/24 16:08	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/16/24 16:08	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/16/24 16:08	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/16/24 16:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/24 16:08*	*1*
Dibromofluoromethane (Surr)	*73*		*70 - 130*		*10/16/24 16:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*70*		*60 - 124*		*10/16/24 16:08*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/16/24 16:08*	*1*

Lab Sample ID: LCS 680-859716/4
Matrix: Water
Analysis Batch: 859716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	220		ug/L		88	67 - 120
Benzene	50.0	48.3		ug/L		97	70 - 130
Bromochloromethane	50.0	44.8		ug/L		90	70 - 130
Bromoform	50.0	48.1		ug/L		96	69 - 129
Bromomethane	50.0	44.3		ug/L		89	28 - 192
Carbon tetrachloride	50.0	47.6		ug/L		95	70 - 130
Chlorobenzene	50.0	47.3		ug/L		95	70 - 130

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

Lab Sample ID: LCS 680-859716/4
Matrix: Water
Analysis Batch: 859716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	42.1		ug/L		84	31 - 213		
Chloroform			50.0	48.1		ug/L		96	70 - 130		
Chloromethane			50.0	34.1		ug/L		68	59 - 127		
cis-1,2-Dichloroethene			50.0	46.3		ug/L		93	70 - 130		
cis-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130		
Dibromochloromethane			50.0	46.8		ug/L		94	70 - 130		
1,1-Dichloroethane			50.0	47.6		ug/L		95	70 - 130		
1,2-Dichloroethane			50.0	47.8		ug/L		96	70 - 130		
1,1-Dichloroethene			50.0	47.3		ug/L		95	70 - 130		
1,3-Dichloropropene, Total			100	96.5		ug/L		96	70 - 130		
Ethylbenzene			50.0	50.3		ug/L		101	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	215		ug/L		86	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	50.1		ug/L		100	70 - 130		
Tetrachloroethene			50.0	49.1		ug/L		98	70 - 130		
Toluene			50.0	45.8		ug/L		92	70 - 130		
trans-1,2-Dichloroethene			50.0	45.7		ug/L		91	70 - 130		
trans-1,3-Dichloropropene			50.0	48.9		ug/L		98	70 - 130		
1,1,1-Trichloroethane			50.0	47.9		ug/L		96	70 - 130		
1,1,2-Trichloroethane			50.0	44.7		ug/L		89	70 - 130		
Trichloroethene			50.0	45.3		ug/L		91	70 - 130		
Vinyl chloride			50.0	39.9		ug/L		80	66 - 129		
Xylenes, Total			100	99.3		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-859716/5
Matrix: Water
Analysis Batch: 859716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	216		ug/L		86	67 - 120	2	30
Benzene			50.0	47.8		ug/L		96	70 - 130	1	30
Bromochloromethane			50.0	44.0		ug/L		88	70 - 130	2	30
Bromoform			50.0	48.5		ug/L		97	69 - 129	1	30
Bromomethane			50.0	44.5		ug/L		89	28 - 192	1	30
Carbon tetrachloride			50.0	50.2		ug/L		100	70 - 130	5	30
Chlorobenzene			50.0	47.3		ug/L		95	70 - 130	0	30
Chloroethane			50.0	42.4		ug/L		85	31 - 213	1	30
Chloroform			50.0	48.0		ug/L		96	70 - 130	0	30
Chloromethane			50.0	32.9		ug/L		66	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	70 - 130	6	30
cis-1,3-Dichloropropene			50.0	45.9		ug/L		92	70 - 130	4	20
Dibromochloromethane			50.0	45.6		ug/L		91	70 - 130	3	30
1,1-Dichloroethane			50.0	47.8		ug/L		96	70 - 130	0	30

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

Lab Sample ID: LCSD 680-859716/5
Matrix: Water
Analysis Batch: 859716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	48.1		ug/L		96	70 - 130	1	50
1,1-Dichloroethene			50.0	48.1		ug/L		96	70 - 130	2	20
1,3-Dichloropropene, Total			100	93.8		ug/L		94	70 - 130	3	30
Ethylbenzene			50.0	51.4		ug/L		103	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	211		ug/L		84	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	49.7		ug/L		99	70 - 130	1	30
Tetrachloroethene			50.0	50.6		ug/L		101	70 - 130	3	30
Toluene			50.0	45.6		ug/L		91	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	45.9		ug/L		92	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	47.9		ug/L		96	70 - 130	2	30
1,1,1-Trichloroethane			50.0	49.3		ug/L		99	70 - 130	3	30
1,1,2-Trichloroethane			50.0	44.0		ug/L		88	70 - 130	2	30
Trichloroethene			50.0	46.2		ug/L		92	70 - 130	2	30
Vinyl chloride			50.0	40.9		ug/L		82	66 - 129	2	30
Xylenes, Total			100	99.8		ug/L		100	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-860586/9
Matrix: Water
Analysis Batch: 860586

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/22/24 12:27	1
Benzene	<0.27		1.0	0.27	ug/L			10/22/24 12:27	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/22/24 12:27	1
Bromoform	<0.59		1.0	0.59	ug/L			10/22/24 12:27	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/22/24 12:27	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/22/24 12:27	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/22/24 12:27	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/22/24 12:27	1
Chloroform	<0.27		1.0	0.27	ug/L			10/22/24 12:27	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/22/24 12:27	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/24 12:27	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/22/24 12:27	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/22/24 12:27	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/22/24 12:27	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/22/24 12:27	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/22/24 12:27	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/22/24 12:27	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/22/24 12:27	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/22/24 12:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/22/24 12:27	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/22/24 12:27	1

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

Lab Sample ID: MB 680-860586/9
Matrix: Water
Analysis Batch: 860586

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/22/24 12:27	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/22/24 12:27	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/22/24 12:27	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/22/24 12:27	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/22/24 12:27	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/22/24 12:27	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/22/24 12:27	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/22/24 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/24 12:27*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/24 12:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/22/24 12:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/24 12:27*	*1*

Lab Sample ID: LCS 680-860586/5
Matrix: Water
Analysis Batch: 860586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	275		ug/L		110	67 - 120
Benzene	50.0	55.9		ug/L		112	70 - 130
Bromochloromethane	50.0	54.1		ug/L		108	70 - 130
Bromoform	50.0	48.4		ug/L		97	69 - 129
Bromomethane	50.0	51.4		ug/L		103	28 - 192
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chloroethane	50.0	71.2		ug/L		142	31 - 213
Chloroform	50.0	53.5		ug/L		107	70 - 130
Chloromethane	50.0	51.5		ug/L		103	59 - 127
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	70 - 130
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	52.4		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	55.8		ug/L		112	70 - 130
1,3-Dichloropropene, Total	100	102		ug/L		102	70 - 130
Ethylbenzene	50.0	53.4		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	250	257		ug/L		103	68 - 120
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	70 - 130
Tetrachloroethene	50.0	55.0		ug/L		110	70 - 130
Toluene	50.0	55.3		ug/L		111	70 - 130
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	70 - 130
Trichloroethene	50.0	51.7		ug/L		103	70 - 130
Vinyl chloride	50.0	51.6		ug/L		103	66 - 129

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

Lab Sample ID: LCS 680-860586/5
Matrix: Water
Analysis Batch: 860586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 680-860586/6
Matrix: Water
Analysis Batch: 860586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	289		ug/L		116	67 - 120	5	30
Benzene			50.0	56.4		ug/L		113	70 - 130	1	30
Bromochloromethane			50.0	56.4		ug/L		113	70 - 130	4	30
Bromoform			50.0	48.0		ug/L		96	69 - 129	1	30
Bromomethane			50.0	50.7		ug/L		101	28 - 192	1	30
Carbon tetrachloride			50.0	56.0		ug/L		112	70 - 130	3	30
Chlorobenzene			50.0	51.0		ug/L		102	70 - 130	0	30
Chloroethane			50.0	54.5		ug/L		109	31 - 213	27	30
Chloroform			50.0	55.3		ug/L		111	70 - 130	3	30
Chloromethane			50.0	53.4		ug/L		107	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	57.3		ug/L		115	70 - 130	5	30
cis-1,3-Dichloropropene			50.0	52.8		ug/L		106	70 - 130	4	20
Dibromochloromethane			50.0	51.3		ug/L		103	70 - 130	2	30
1,1-Dichloroethane			50.0	56.6		ug/L		113	70 - 130	5	30
1,2-Dichloroethane			50.0	54.2		ug/L		108	70 - 130	3	50
1,1-Dichloroethene			50.0	56.2		ug/L		112	70 - 130	1	20
1,3-Dichloropropene, Total			100	106		ug/L		106	70 - 130	4	30
Ethylbenzene			50.0	54.1		ug/L		108	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	258		ug/L		103	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	52.3		ug/L		105	70 - 130	1	30
Tetrachloroethene			50.0	54.6		ug/L		109	70 - 130	1	30
Toluene			50.0	55.9		ug/L		112	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	56.1		ug/L		112	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	53.1		ug/L		106	70 - 130	3	30
1,1,1-Trichloroethane			50.0	53.7		ug/L		107	70 - 130	3	30
1,1,2-Trichloroethane			50.0	53.1		ug/L		106	70 - 130	2	30
Trichloroethene			50.0	52.5		ug/L		105	70 - 130	2	30
Vinyl chloride			50.0	54.9		ug/L		110	66 - 129	6	30
Xylenes, Total			100	107		ug/L		107	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
Toluene-d8 (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 680-860783/9
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 12:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 12:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 12:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 12:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 12:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 12:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 12:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 12:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 12:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 12:53	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 12:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 12:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 12:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 12:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 12:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 12:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 12:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 12:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 12:53	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 12:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 12:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 12:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 12:53	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/23/24 12:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 12:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/23/24 12:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/23/24 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/23/24 12:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/24 12:53*	*1*

Lab Sample ID: LCS 680-860783/5
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	254		ug/L		102	67 - 120
Benzene	50.0	51.3		ug/L		103	70 - 130
Bromochloromethane	50.0	50.1		ug/L		100	70 - 130
Bromoform	50.0	46.4		ug/L		93	69 - 129
Bromomethane	50.0	45.4		ug/L		91	28 - 192
Carbon tetrachloride	50.0	50.2		ug/L		100	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130

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

Lab Sample ID: LCS 680-860783/5
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	50.7		ug/L		101	31 - 213		
Chloroform			50.0	49.6		ug/L		99	70 - 130		
Chloromethane			50.0	48.8		ug/L		98	59 - 127		
cis-1,2-Dichloroethene			50.0	51.2		ug/L		102	70 - 130		
cis-1,3-Dichloropropene			50.0	47.2		ug/L		94	70 - 130		
Dibromochloromethane			50.0	46.6		ug/L		93	70 - 130		
1,1-Dichloroethane			50.0	50.7		ug/L		101	70 - 130		
1,2-Dichloroethane			50.0	48.1		ug/L		96	70 - 130		
1,1-Dichloroethene			50.0	51.5		ug/L		103	70 - 130		
1,3-Dichloropropene, Total			100	94.9		ug/L		95	70 - 130		
Ethylbenzene			50.0	52.9		ug/L		106	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	239		ug/L		96	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	51.5		ug/L		103	70 - 130		
Tetrachloroethene			50.0	51.4		ug/L		103	70 - 130		
Toluene			50.0	51.5		ug/L		103	70 - 130		
trans-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 130		
trans-1,3-Dichloropropene			50.0	47.7		ug/L		95	70 - 130		
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	70 - 130		
1,1,2-Trichloroethane			50.0	48.0		ug/L		96	70 - 130		
Trichloroethene			50.0	48.0		ug/L		96	70 - 130		
Vinyl chloride			50.0	50.2		ug/L		100	66 - 129		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-860783/6
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	265		ug/L		106	67 - 120	4	30
Benzene			50.0	51.0		ug/L		102	70 - 130	1	30
Bromochloromethane			50.0	52.2		ug/L		104	70 - 130	4	30
Bromoform			50.0	45.5		ug/L		91	69 - 129	2	30
Bromomethane			50.0	46.9		ug/L		94	28 - 192	3	30
Carbon tetrachloride			50.0	51.0		ug/L		102	70 - 130	2	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	0	30
Chloroethane			50.0	52.2		ug/L		104	31 - 213	3	30
Chloroform			50.0	51.1		ug/L		102	70 - 130	3	30
Chloromethane			50.0	48.9		ug/L		98	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	52.4		ug/L		105	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	1	20
Dibromochloromethane			50.0	46.4		ug/L		93	70 - 130	0	30
1,1-Dichloroethane			50.0	52.1		ug/L		104	70 - 130	3	30

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

Lab Sample ID: LCSD 680-860783/6
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	3	50
1,1-Dichloroethene			50.0	52.5		ug/L		105	70 - 130	2	20
1,3-Dichloropropene, Total			100	95.2		ug/L		95	70 - 130	0	30
Ethylbenzene			50.0	51.7		ug/L		103	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	235		ug/L		94	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	49.8		ug/L		100	70 - 130	3	30
Tetrachloroethene			50.0	50.1		ug/L		100	70 - 130	3	30
Toluene			50.0	51.4		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	47.5		ug/L		95	70 - 130	0	30
1,1,1-Trichloroethane			50.0	50.5		ug/L		101	70 - 130	2	30
1,1,2-Trichloroethane			50.0	48.1		ug/L		96	70 - 130	0	30
Trichloroethene			50.0	47.6		ug/L		95	70 - 130	1	30
Vinyl chloride			50.0	49.8		ug/L		100	66 - 129	1	30
Xylenes, Total			100	106		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 680-256953-2 MS
Matrix: Water
Analysis Batch: 860783

Client Sample ID: MW-183R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.7		250	245		ug/L		98	67 - 120
Benzene	<0.27		50.0	51.3		ug/L		103	70 - 130
Bromochloromethane	<0.34		50.0	52.4		ug/L		105	70 - 130
Bromoform	<0.59	F2	50.0	47.8		ug/L		96	69 - 129
Bromomethane	<3.7	F2 F1	50.0	119	F1	ug/L		238	28 - 192
Carbon tetrachloride	<0.30		50.0	53.0		ug/L		106	70 - 130
Chlorobenzene	<0.15		50.0	50.4		ug/L		101	70 - 130
Chloroethane	<4.6	F2 F1	50.0	153	F1	ug/L		306	31 - 213
Chloroform	<0.27		50.0	50.2		ug/L		100	70 - 130
Chloromethane	<0.54	F2 F1	50.0	54.4		ug/L		109	59 - 127
cis-1,2-Dichloroethene	<0.25		50.0	51.5		ug/L		103	70 - 130
cis-1,3-Dichloropropene	<0.26	F2	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	<0.39	F2	50.0	46.8		ug/L		94	70 - 130
1,1-Dichloroethane	<0.33		50.0	51.8		ug/L		104	70 - 130
1,2-Dichloroethane	<0.25		50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	<0.33	F2	50.0	53.6		ug/L		107	70 - 130
1,3-Dichloropropene, Total	<0.48	F2	100	91.7		ug/L		92	70 - 130
Ethylbenzene	<0.20	F2	50.0	52.8		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7	F1	250	244		ug/L		98	68 - 120
1,1,2,2-Tetrachloroethane	<0.40		50.0	51.1		ug/L		102	70 - 130
Tetrachloroethene	<0.35		50.0	50.8		ug/L		102	70 - 130

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

Lab Sample ID: 680-256953-2 MS
Matrix: Water
Analysis Batch: 860783

Client Sample ID: MW-183R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.25		50.0	51.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	<0.34		50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	<0.23	F2	50.0	43.7		ug/L		87	70 - 130
1,1,1-Trichloroethane	<0.21		50.0	50.7		ug/L		101	70 - 130
1,1,2-Trichloroethane	<0.32		50.0	46.4		ug/L		93	70 - 130
Trichloroethene	<0.20		50.0	48.0		ug/L		96	70 - 130
Vinyl chloride	<0.40	F2 F1	50.0	47.0		ug/L		94	66 - 129
Xylenes, Total	<0.23		100	105		ug/L		105	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-256953-2 MSD
Matrix: Water
Analysis Batch: 860783

Client Sample ID: MW-183R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<3.7		250	251		ug/L		100	67 - 120	2	30
Benzene	<0.27		50.0	51.9		ug/L		104	70 - 130	1	30
Bromochloromethane	<0.34		50.0	52.6		ug/L		105	70 - 130	0	30
Bromoform	<0.59	F2	50.0	49.6		ug/L		99	69 - 129	4	30
Bromomethane	<3.7	F2 F1	50.0	110	F1	ug/L		220	28 - 192	8	30
Carbon tetrachloride	<0.30		50.0	53.5		ug/L		107	70 - 130	1	30
Chlorobenzene	<0.15		50.0	50.5		ug/L		101	70 - 130	0	30
Chloroethane	<4.6	F2 F1	50.0	155	F1	ug/L		311	31 - 213	2	30
Chloroform	<0.27		50.0	51.2		ug/L		102	70 - 130	2	30
Chloromethane	<0.54	F2 F1	50.0	55.3		ug/L		111	59 - 127	2	30
cis-1,2-Dichloroethene	<0.25		50.0	51.7		ug/L		103	70 - 130	0	30
cis-1,3-Dichloropropene	<0.26	F2	50.0	49.4		ug/L		99	70 - 130	3	20
Dibromochloromethane	<0.39	F2	50.0	48.0		ug/L		96	70 - 130	3	30
1,1-Dichloroethane	<0.33		50.0	52.0		ug/L		104	70 - 130	0	30
1,2-Dichloroethane	<0.25		50.0	48.4		ug/L		97	70 - 130	1	50
1,1-Dichloroethene	<0.33	F2	50.0	53.6		ug/L		107	70 - 130	0	20
1,3-Dichloropropene, Total	<0.48	F2	100	94.8		ug/L		95	70 - 130	3	30
Ethylbenzene	<0.20	F2	50.0	53.5		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	<2.7	F1	250	254		ug/L		102	68 - 120	4	30
1,1,2,2-Tetrachloroethane	<0.40		50.0	52.7		ug/L		105	70 - 130	3	30
Tetrachloroethene	<0.35		50.0	51.6		ug/L		103	70 - 130	2	30
Toluene	<0.25		50.0	52.7		ug/L		105	70 - 130	2	30
trans-1,2-Dichloroethene	<0.34		50.0	52.2		ug/L		104	70 - 130	3	30
trans-1,3-Dichloropropene	<0.23	F2	50.0	45.5		ug/L		91	70 - 130	4	30
1,1,1-Trichloroethane	<0.21		50.0	50.2		ug/L		100	70 - 130	1	30
1,1,2-Trichloroethane	<0.32		50.0	48.3		ug/L		97	70 - 130	4	30
Trichloroethene	<0.20		50.0	47.7		ug/L		95	70 - 130	1	30
Vinyl chloride	<0.40	F2 F1	50.0	46.9		ug/L		94	66 - 129	0	30

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

Lab Sample ID: 680-256953-2 MSD
Matrix: Water
Analysis Batch: 860783

Client Sample ID: MW-183R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<0.23		100	105		ug/L		105	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-563987/1-A
Matrix: Water
Analysis Batch: 563804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 17:38	1
Ethane	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 17:38	1
Ethylene	<1.0		5.0	1.0	ug/L		10/16/24 14:18	10/16/24 17:38	1
Methane	<3.0		5.0	3.0	ug/L		10/16/24 14:18	10/16/24 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*110*		*43 - 133*	*10/16/24 14:18*	*10/16/24 17:38*	*1*

Lab Sample ID: LCS 410-563987/2-A
Matrix: Water
Analysis Batch: 563804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563987

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetylene			52.1	56.0		ug/L		108	61 - 148		
Ethane			61.7	68.9		ug/L		112	85 - 115		
Ethylene			58.3	67.3		ug/L		115	83 - 115		
Methane			59.8	67.4		ug/L		113	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*111*		*43 - 133*

Lab Sample ID: LCSD 410-563987/3-A
Matrix: Water
Analysis Batch: 563804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563987

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene			52.1	55.0		ug/L		106	61 - 148	2	20
Ethane			61.7	67.7		ug/L		110	85 - 115	2	20
Ethylene			58.3	65.5		ug/L		112	83 - 115	3	20
Methane			59.8	66.7		ug/L		112	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*109*		*43 - 133*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-564454/1-A
Matrix: Water
Analysis Batch: 564379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 11:01	10/17/24 11:03	1
Methane	<3.0		5.0	3.0	ug/L		10/17/24 11:01	10/17/24 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*101*		*43 - 133*	*10/17/24 11:01*	*10/17/24 11:03*	*1*

Lab Sample ID: LCS 410-564454/2-A
Matrix: Water
Analysis Batch: 564379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	55.1		ug/L		106	61 - 148
Ethane	61.7	61.4		ug/L		99	85 - 115
Ethylene	58.3	59.2		ug/L		101	83 - 115
Methane	59.8	61.5		ug/L		103	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*97*		*43 - 133*

Lab Sample ID: MB 400-688243/3
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/17/24 10:00	1
Ethane	<0.75		1.0	0.75	ug/L			10/17/24 10:00	1
Ethylene	<0.55		1.0	0.55	ug/L			10/17/24 10:00	1

Lab Sample ID: LCS 400-688243/4
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	389	394		ug/L		101	82 - 117
Ethane	736	729		ug/L		99	85 - 116
Ethylene	687	657		ug/L		96	83 - 121

Lab Sample ID: LCSD 400-688243/5
Matrix: Water
Analysis Batch: 688243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	389	412		ug/L		106	82 - 117	5	20
Ethane	736	758		ug/L		103	85 - 116	4	20
Ethylene	687	686		ug/L		100	83 - 121	4	20

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-859935/10
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/17/24 13:57	1
Sulfate	<0.40		1.0	0.40	mg/L			10/17/24 13:57	1

Lab Sample ID: LCS 680-859935/11
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Sulfate	10.0	9.66		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-859935/12
Matrix: Water
Analysis Batch: 859935

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.73		mg/L		97	90 - 110	1	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-116108/1
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/14/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/14/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/14/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/14/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/14/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/14/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/14/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/14/24 16:00	1

Lab Sample ID: LCS 670-116108/3
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	20.8		mg/L		104	60 - 140
Butyric acid	20.0	18.0		mg/L		90	60 - 140
Formic acid	20.0	22.7		mg/L		114	60 - 140
Hexanoic acid	20.0	15.3		mg/L		77	60 - 140
Pentanoic acid	20.0	21.1		mg/L		106	60 - 140
Propionic acid	20.0	14.2		mg/L		71	60 - 140
Pyruvic Acid	20.0	21.7		mg/L		109	60 - 140

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Lab Sample ID: LCSD 670-116108/4
Matrix: Water
Analysis Batch: 116108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid			20.0	21.6		mg/L		108	60 - 140	4	25
Butyric acid			20.0	19.2		mg/L		96	60 - 140	6	25
Formic acid			20.0	22.4		mg/L		112	60 - 140	1	25
Hexanoic acid			20.0	13.2		mg/L		66	60 - 140	15	25
Pentanoic acid			20.0	21.7		mg/L		109	60 - 140	3	25
Propionic acid			20.0	16.7		mg/L		84	60 - 140	16	25
Pyruvic Acid			20.0	23.3		mg/L		117	60 - 140	7	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-858956/1-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 858956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/10/24 16:33	10/15/24 14:16	1

Lab Sample ID: LCS 680-858956/2-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 858956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			5.00	4.93		mg/L		99	80 - 120		

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-859094/14
Matrix: Water
Analysis Batch: 859094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0240	J	0.10	0.010	mg/L			10/10/24 10:05	1

Lab Sample ID: LCS 680-859094/15
Matrix: Water
Analysis Batch: 859094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.500	0.490		mg/L		98	90 - 110		

Lab Sample ID: 680-256953-8 MS
Matrix: Water
Analysis Batch: 859094

Client Sample ID: MW-186-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.055	J F1 B	0.500	0.587		mg/L		106	90 - 110		

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 680-256953-8 MSD
Matrix: Water
Analysis Batch: 859094

Client Sample ID: MW-186-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.055	J F1 B	0.500	0.622	F1	mg/L		113	90 - 110	6	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-859800/3
Matrix: Water
Analysis Batch: 859800

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/15/24 23:55	1

Lab Sample ID: LCS 680-859800/4
Matrix: Water
Analysis Batch: 859800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.953		mg/L		95	90 - 110

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-859579/1
Matrix: Water
Analysis Batch: 859579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			10/14/24 23:17	1

Lab Sample ID: LCS 680-859579/2
Matrix: Water
Analysis Batch: 859579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.4		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-859579/3
Matrix: Water
Analysis Batch: 859579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.5		mg/L		97	80 - 120	0	25

Lab Sample ID: 680-256953-4 DU
Matrix: Water
Analysis Batch: 859579

Client Sample ID: MW-99-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	17		17.1		mg/L		1	25

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 680-859978/1
Matrix: Water
Analysis Batch: 859978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			10/17/24 02:41	1

Lab Sample ID: LCS 680-859978/2
Matrix: Water
Analysis Batch: 859978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-859978/3
Matrix: Water
Analysis Batch: 859978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.7		mg/L		99	80 - 120	0	25

Method: 5310 B-2011 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 680-859179/1-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.50		1.0	0.50	mg/L			10/12/24 21:43	1

Lab Sample ID: LCS 680-859179/2-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	18.5		mg/L		92	80 - 120

Lab Sample ID: LCSD 680-859179/3-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	19.1		mg/L		95	80 - 120	3	20

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-859615/12
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.025		0.10	0.025	mg/L			10/15/24 12:20	1

Method: SM 3500 FE D - Iron, Ferrous (Continued)

Lab Sample ID: LCS 680-859615/11
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	2.00	1.89		mg/L		95	80 - 120

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 400-687999/3
Matrix: Water
Analysis Batch: 687999

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.057		0.10	0.057	mg/L			10/15/24 15:30	1

Lab Sample ID: LCS 400-687999/4
Matrix: Water
Analysis Batch: 687999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.534	0.584		mg/L		109	80 - 120

Lab Sample ID: MRL 400-687999/2
Matrix: Water
Analysis Batch: 687999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0996	0.105		mg/L		105	50 - 150

GC/MS VOA

Analysis Batch: 859716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-1	MW-213-202410	Total/NA	Water	8260D	
680-256953-3	MW-192-202410	Total/NA	Water	8260D	
680-256953-4	MW-99-202410	Total/NA	Water	8260D	
680-256953-5	TMW-30-202410	Total/NA	Water	8260D	
680-256953-6	DUP-11-202410	Total/NA	Water	8260D	
680-256953-7	TMW-27-202410	Total/NA	Water	8260D	
680-256953-8	MW-186-202410	Total/NA	Water	8260D	
680-256953-9	MW-50R-202410	Total/NA	Water	8260D	
680-256953-10	TMW-21-202410	Total/NA	Water	8260D	
680-256953-11	MW-176-202410	Total/NA	Water	8260D	
680-256953-12	MW-182-202410	Total/NA	Water	8260D	
680-256953-13	DUP-09-202410	Total/NA	Water	8260D	
680-256953-14	MW-190-202410	Total/NA	Water	8260D	
680-256953-15	MW-89-202410	Total/NA	Water	8260D	
680-256953-16	MW-24-202410	Total/NA	Water	8260D	
MB 680-859716/10	Method Blank	Total/NA	Water	8260D	
LCS 680-859716/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-859716/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-12	MW-182-202410	Total/NA	Water	8260D	
680-256953-13	DUP-09-202410	Total/NA	Water	8260D	
680-256953-17	MW-61R-202410	Total/NA	Water	8260D	
680-256953-18	VP-07-202410	Total/NA	Water	8260D	
680-256953-19	VP-08-202410	Total/NA	Water	8260D	
680-256953-21	MW-188-202410	Total/NA	Water	8260D	
680-256953-22	VP-12-202410	Total/NA	Water	8260D	
680-256953-23	VP-14-202410	Total/NA	Water	8260D	
680-256953-24	TMW-25-202410	Total/NA	Water	8260D	
680-256953-25	MW-63R-202410	Total/NA	Water	8260D	
680-256953-26	EB-03-202410	Total/NA	Water	8260D	
680-256953-27	TB-03-202410	Total/NA	Water	8260D	
680-256953-28	TB-04-202410	Total/NA	Water	8260D	
680-256953-29	MW-92-202410	Total/NA	Water	8260D	
MB 680-860586/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860586/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860586/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-2	MW-183R-202410	Total/NA	Water	8260D	
680-256953-11 - DL	MW-176-202410	Total/NA	Water	8260D	
680-256953-20	MW-202-202410	Total/NA	Water	8260D	
MB 680-860783/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860783/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860783/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-256953-2 MS	MW-183R-202410	Total/NA	Water	8260D	
680-256953-2 MSD	MW-183R-202410	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 563804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-9	MW-50R-202410	Total/NA	Water	RSK-175	563987
680-256953-15	MW-89-202410	Total/NA	Water	RSK-175	563987
680-256953-16	MW-24-202410	Total/NA	Water	RSK-175	563987
680-256953-29	MW-92-202410	Total/NA	Water	RSK-175	563987
MB 410-563987/1-A	Method Blank	Total/NA	Water	RSK-175	563987
LCS 410-563987/2-A	Lab Control Sample	Total/NA	Water	RSK-175	563987
LCSD 410-563987/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	563987

Prep Batch: 563987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-9	MW-50R-202410	Total/NA	Water	RSK-175	
680-256953-15	MW-89-202410	Total/NA	Water	RSK-175	
680-256953-16	MW-24-202410	Total/NA	Water	RSK-175	
680-256953-29	MW-92-202410	Total/NA	Water	RSK-175	
MB 410-563987/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-563987/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-563987/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 564379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-29 - DL	MW-92-202410	Total/NA	Water	RSK-175	564454
MB 410-564454/1-A	Method Blank	Total/NA	Water	RSK-175	564454
LCS 410-564454/2-A	Lab Control Sample	Total/NA	Water	RSK-175	564454

Prep Batch: 564454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-29 - DL	MW-92-202410	Total/NA	Water	RSK-175	
MB 410-564454/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-564454/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 688243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	RSK-175	
680-256953-4	MW-99-202410	Total/NA	Water	RSK-175	
680-256953-8	MW-186-202410	Total/NA	Water	RSK-175	
680-256953-8	MW-186-202410	Total/NA	Water	RSK-175	
680-256953-10	TMW-21-202410	Total/NA	Water	RSK-175	
680-256953-10	TMW-21-202410	Total/NA	Water	RSK-175	
680-256953-24	TMW-25-202410	Total/NA	Water	RSK-175	
680-256953-24	TMW-25-202410	Total/NA	Water	RSK-175	
MB 400-688243/3	Method Blank	Total/NA	Water	RSK-175	
LCS 400-688243/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 400-688243/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 116108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	VFA-HPLC	
680-256953-8	MW-186-202410	Total/NA	Water	VFA-HPLC	
680-256953-10	TMW-21-202410	Total/NA	Water	VFA-HPLC	

HPLC/IC (Continued)

Analysis Batch: 116108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-24	TMW-25-202410	Total/NA	Water	VFA-HPLC	
MB 670-116108/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-116108/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-116108/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 859935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-8	MW-186-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-9	MW-50R-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-10	TMW-21-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-15	MW-89-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-16	MW-24-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-24	TMW-25-202410	Total/NA	Water	300.0-1993 R2.1	
680-256953-29	MW-92-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-859935/10	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-859935/11	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-859935/12	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 858956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total Recoverable	Water	3005A	
680-256953-8	MW-186-202410	Total Recoverable	Water	3005A	
680-256953-9	MW-50R-202410	Total Recoverable	Water	3005A	
680-256953-10	TMW-21-202410	Total Recoverable	Water	3005A	
680-256953-15	MW-89-202410	Total Recoverable	Water	3005A	
680-256953-16	MW-24-202410	Total Recoverable	Water	3005A	
680-256953-24	TMW-25-202410	Total Recoverable	Water	3005A	
680-256953-29	MW-92-202410	Total Recoverable	Water	3005A	
MB 680-858956/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-858956/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 859655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total Recoverable	Water	6010D	858956
680-256953-8	MW-186-202410	Total Recoverable	Water	6010D	858956
680-256953-9	MW-50R-202410	Total Recoverable	Water	6010D	858956
680-256953-10	TMW-21-202410	Total Recoverable	Water	6010D	858956
680-256953-15	MW-89-202410	Total Recoverable	Water	6010D	858956
680-256953-16	MW-24-202410	Total Recoverable	Water	6010D	858956
680-256953-24	TMW-25-202410	Total Recoverable	Water	6010D	858956
680-256953-29	MW-92-202410	Total Recoverable	Water	6010D	858956
MB 680-858956/1-A	Method Blank	Total Recoverable	Water	6010D	858956
LCS 680-858956/2-A	Lab Control Sample	Total Recoverable	Water	6010D	858956

General Chemistry

Analysis Batch: 687999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-9	MW-50R-202410	Total/NA	Water	SM 4500 S2 D	

General Chemistry (Continued)

Analysis Batch: 687999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-15	MW-89-202410	Total/NA	Water	SM 4500 S2 D	
MB 400-687999/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 400-687999/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 400-687999/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 859094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	353.2	
680-256953-8	MW-186-202410	Total/NA	Water	353.2	
680-256953-10	TMW-21-202410	Total/NA	Water	353.2	
680-256953-16	MW-24-202410	Total/NA	Water	353.2	
680-256953-24	TMW-25-202410	Total/NA	Water	353.2	
680-256953-29	MW-92-202410	Total/NA	Water	353.2	
MB 680-859094/14	Method Blank	Total/NA	Water	353.2	
LCS 680-859094/15	Lab Control Sample	Total/NA	Water	353.2	
680-256953-8 MS	MW-186-202410	Total/NA	Water	353.2	
680-256953-8 MSD	MW-186-202410	Total/NA	Water	353.2	

Filtration Batch: 859179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Dissolved	Water	FILTRATION	
680-256953-8	MW-186-202410	Dissolved	Water	FILTRATION	
680-256953-10	TMW-21-202410	Dissolved	Water	FILTRATION	
680-256953-24	TMW-25-202410	Dissolved	Water	FILTRATION	
MB 680-859179/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-859179/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-859179/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 859269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Dissolved	Water	5310 B-2011	859179
680-256953-8	MW-186-202410	Dissolved	Water	5310 B-2011	859179
680-256953-10	TMW-21-202410	Dissolved	Water	5310 B-2011	859179
680-256953-24	TMW-25-202410	Dissolved	Water	5310 B-2011	859179
MB 680-859179/1-A	Method Blank	Dissolved	Water	5310 B-2011	859179
LCS 680-859179/2-A	Lab Control Sample	Dissolved	Water	5310 B-2011	859179
LCSD 680-859179/3-A	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	859179

Analysis Batch: 859343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	Nitrate by calc	
680-256953-8	MW-186-202410	Total/NA	Water	Nitrate by calc	
680-256953-10	TMW-21-202410	Total/NA	Water	Nitrate by calc	
680-256953-16	MW-24-202410	Total/NA	Water	Nitrate by calc	
680-256953-24	TMW-25-202410	Total/NA	Water	Nitrate by calc	
680-256953-29	MW-92-202410	Total/NA	Water	Nitrate by calc	

Analysis Batch: 859579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	5310 B-2011	
680-256953-8	MW-186-202410	Total/NA	Water	5310 B-2011	

General Chemistry (Continued)

Analysis Batch: 859579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-10	TMW-21-202410	Total/NA	Water	5310 B-2011	
MB 680-859579/1	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-859579/2	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-859579/3	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
680-256953-4 DU	MW-99-202410	Total/NA	Water	5310 B-2011	

Analysis Batch: 859615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	SM 3500 FE D	
680-256953-8	MW-186-202410	Total/NA	Water	SM 3500 FE D	
680-256953-9	MW-50R-202410	Total/NA	Water	SM 3500 FE D	
680-256953-10	TMW-21-202410	Total/NA	Water	SM 3500 FE D	
680-256953-15	MW-89-202410	Total/NA	Water	SM 3500 FE D	
680-256953-16	MW-24-202410	Total/NA	Water	SM 3500 FE D	
680-256953-24	TMW-25-202410	Total/NA	Water	SM 3500 FE D	
680-256953-29	MW-92-202410	Total/NA	Water	SM 3500 FE D	
MB 680-859615/12	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-859615/11	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 859800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	353.2	
680-256953-8	MW-186-202410	Total/NA	Water	353.2	
680-256953-10	TMW-21-202410	Total/NA	Water	353.2	
680-256953-16	MW-24-202410	Total/NA	Water	353.2	
680-256953-24	TMW-25-202410	Total/NA	Water	353.2	
680-256953-29	MW-92-202410	Total/NA	Water	353.2	
MB 680-859800/3	Method Blank	Total/NA	Water	353.2	
LCS 680-859800/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 859978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-24	TMW-25-202410	Total/NA	Water	5310 B-2011	
MB 680-859978/1	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-859978/2	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-859978/3	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	

Analysis Batch: 860396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256953-4	MW-99-202410	Total/NA	Water	SM 3500	
680-256953-8	MW-186-202410	Total/NA	Water	SM 3500	
680-256953-9	MW-50R-202410	Total/NA	Water	SM 3500	
680-256953-10	TMW-21-202410	Total/NA	Water	SM 3500	
680-256953-15	MW-89-202410	Total/NA	Water	SM 3500	
680-256953-24	TMW-25-202410	Total/NA	Water	SM 3500	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-213-202410
Lab Sample ID: 680-256953-1
Date Collected: 10/08/24 17:45
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 16:50	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-183R-202410
Lab Sample ID: 680-256953-2
Date Collected: 10/09/24 09:20
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860783	10/23/24 14:57	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-192-202410
Lab Sample ID: 680-256953-3
Date Collected: 10/09/24 08:50
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 17:11	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-99-202410
Lab Sample ID: 680-256953-4
Date Collected: 10/09/24 08:26
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 17:32	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 13:04	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		2	1 mL	1 mL	688243	10/17/24 17:10	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	859935	10/17/24 17:01	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:47	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 17:05	AF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859800	10/16/24 00:04	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859179	10/12/24 13:47	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859269	10/13/24 00:35	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: MW-99-202410
Lab Sample ID: 680-256953-4

Date Collected: 10/09/24 08:26
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859579	10/15/24 00:23	NVF	EET SAV
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: TMW-30-202410
Lab Sample ID: 680-256953-5

Date Collected: 10/09/24 09:15
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 17:53	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: DUP-11-202410
Lab Sample ID: 680-256953-6

Date Collected: 10/09/24 09:20
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 18:14	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: TMW-27-202410
Lab Sample ID: 680-256953-7

Date Collected: 10/09/24 09:50
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 18:35	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-186-202410
Lab Sample ID: 680-256953-8

Date Collected: 10/09/24 10:20
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 18:56	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 13:14	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		10	1 mL	1 mL	688243	10/17/24 17:29	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	859935	10/17/24 17:07	BS	EET SAV
	Instrument ID: CICR									

Client Sample ID: MW-186-202410

Lab Sample ID: 680-256953-8

Date Collected: 10/09/24 10:20

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:45	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 16:59	AF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859800	10/16/24 00:06	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859179	10/12/24 13:47	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859269	10/13/24 00:54	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859579	10/15/24 00:56	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-50R-202410

Lab Sample ID: 680-256953-9

Date Collected: 10/09/24 11:20

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 19:17	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	563987	10/16/24 14:18	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	563804	10/16/24 21:50	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		25	2 mL	2 mL	859935	10/17/24 17:13	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:29	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	687999	10/15/24 15:30	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: TMW-21-202410

Lab Sample ID: 680-256953-10

Date Collected: 10/09/24 11:10

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 19:38	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 13:37	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		5	1 mL	1 mL	688243	10/17/24 17:40	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		25	2 mL	2 mL	859935	10/17/24 17:20	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 15:03	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 17:02	AF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859800	10/16/24 00:08	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859179	10/12/24 13:47	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859269	10/13/24 01:12	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859579	10/15/24 01:14	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:20	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-176-202410

Lab Sample ID: 680-256953-11

Date Collected: 10/09/24 11:45

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 19:59	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D	DL	1	5 mL	5 mL	860783	10/23/24 14:36	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-182-202410
Lab Sample ID: 680-256953-12

Date Collected: 10/09/24 10:45
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 20:20	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 15:03	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-09-202410
Lab Sample ID: 680-256953-13

Date Collected: 10/09/24 10:50
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 20:41	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 18:40	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-190-202410
Lab Sample ID: 680-256953-14

Date Collected: 10/09/24 12:40
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	859716	10/16/24 21:47	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-89-202410
Lab Sample ID: 680-256953-15

Date Collected: 10/09/24 13:40
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 21:02	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	563987	10/16/24 14:18	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	563804	10/16/24 22:08	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	859935	10/17/24 17:26	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:39	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	687999	10/15/24 15:30	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: MW-24-202410
Lab Sample ID: 680-256953-16

Date Collected: 10/09/24 14:00
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	859716	10/16/24 21:23	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	563987	10/16/24 14:18	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	563804	10/16/24 22:26	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		25	2 mL	2 mL	859935	10/17/24 17:33	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:31	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 17:03	AF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		2	2 mL	2 mL	859800	10/16/24 00:10	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-61R-202410
Lab Sample ID: 680-256953-17

Date Collected: 10/09/24 13:50
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 15:45	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: VP-07-202410
Lab Sample ID: 680-256953-18

Date Collected: 10/09/24 14:50
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 16:07	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: VP-08-202410
Lab Sample ID: 680-256953-19

Date Collected: 10/09/24 14:55
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 16:28	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-202-202410

Lab Sample ID: 680-256953-20

Date Collected: 10/09/24 15:15

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	860783	10/23/24 15:21	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-188-202410

Lab Sample ID: 680-256953-21

Date Collected: 10/09/24 15:20

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 16:50	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: VP-12-202410

Lab Sample ID: 680-256953-22

Date Collected: 10/09/24 15:55

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 17:11	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: VP-14-202410

Lab Sample ID: 680-256953-23

Date Collected: 10/09/24 16:05

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 17:33	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-25-202410

Lab Sample ID: 680-256953-24

Date Collected: 10/09/24 16:24

Matrix: Water

Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 17:54	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688243	10/17/24 13:47	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		5	1 mL	1 mL	688243	10/17/24 17:50	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	859935	10/17/24 18:13	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116108	10/14/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:42	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: TMW-25-202410
Lab Sample ID: 680-256953-24

Date Collected: 10/09/24 16:24
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 17:04	AF	EET SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	859800	10/16/24 00:12	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859179	10/12/24 13:47	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859269	10/13/24 01:30	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859978	10/17/24 05:29	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860396	10/21/24 10:50	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:20	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-63R-202410
Lab Sample ID: 680-256953-25

Date Collected: 10/09/24 16:35
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 18:16	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: EB-03-202410
Lab Sample ID: 680-256953-26

Date Collected: 10/09/24 17:00
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 13:03	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TB-03-202410
Lab Sample ID: 680-256953-27

Date Collected: 10/09/24 08:00
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 13:25	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TB-04-202410
Lab Sample ID: 680-256953-28

Date Collected: 10/09/24 08:00
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860586	10/22/24 13:46	MLL	EET SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-92-202410
Lab Sample ID: 680-256953-29
Date Collected: 10/09/24 14:55
Matrix: Water
Date Received: 10/10/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	860586	10/22/24 19:04	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	563987	10/16/24 14:18	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	563804	10/16/24 22:44	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	564454	10/17/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	10	5 mL	5 mL	564379	10/17/24 17:24	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		50	2 mL	2 mL	859935	10/17/24 18:19	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	858956	10/10/24 16:33	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 14:50	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859094	10/10/24 17:05	AF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859800	10/16/24 00:13	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00689	08-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-256953-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET PEN
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Dissolved (DOC)	SM	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
SM 4500 S2 D	Sulfide, Total	SM	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Ramboll	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft. Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_Fe2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_Fe3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-213-202410	10/8/24	1745	G	W	N	N	X														
MW-183R-202410	10/9/24	0920	G	W	N	N	X														MS/MSD
MW-183R-202410-MS	10/9/24	0920	G	W	N	N	X														
MW-183R-202410-MSD	10/9/24	0920	G	W	N	N	X														
MW-192-202410	10/9/24	0850	G	W	N	N	X														
MW-99-202410	10/9/24	0826	G	W	N	N	X	X			X	X		X	X	X	X		X		
TMW-30-202410	10/9/24	0915	G	W	N	N	X														
DUP-11-202410	10/9/24	0920	G	W	N	N	X														
TMW-27-202410	10/9/24	0950	G	W	N	N	X														
MW-186-202410	10/9/24	1020	G	W	N	N	X		X		X	X		X	X	X			X		
MW-50R-202410	10/9/24	1120	G	W	N	N	X				X		X	X			X	X			

680-256953 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____

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
[signature]	10/9/24 1730	Ramboll			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	10/10/24 1030	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.9/3.9 3.9/3.9

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 2 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft. Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs + Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
TMW-21-202410	10/9/2024	1110	G	W	N	N	X		X		X	X		X	X	X	X		X		
MW-176-202410	10/9/2024	1145	G	W	N	N	X														
MW-182-202410	10/9/2024	1045	G	W	N	N	X														
DUP-09-202410	10/9/2024	1050	G	W	N	N	X														
MW-190-202410	10/9/2024	1240	G	W	N	N	X														
MW-89-202410	10/9/2024	1340	G	W	N	N	X				X		X	X			X	X			
~~MW-84-202410~~ MW-24-202410	10/9/2024	1400	G	W	N	N	X	X	X				X	X			X				
MW-GIR-202410	10/9/2024	1350	G	W	N	N	X	X			X	X		X	X	X	X		X		
VP-07-202410	10/9/2024	1450	G	W	N	N	X														
VP-08-202410	10/9/2024	1455	G	W	N	N	X														
MW-202-202410	10/9/2024	1515	G	W	N	N	X														

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
[signature]	10/9/24 1730	Ramboll			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	10/10/24 1030	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.9/3.9 3.9/3.9

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 3 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Stcl TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft. Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (28)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-188-202410	10/9/2024	1526	G	W	N	N	X														
VP-12-202410	10/9/2024	1555	G	W	N	N	X														
VP-14-202410	10/9/2024	1605	G	W	N	N	X														
TMW-25-202410	10/9/2024	1624	G	W	N	N	X	X			X	X		X	X	X	X		X		
MW-63R-202410	10/9/2024	1635	G	W	N	N	X														
EB-03-202410	10/9/2024	1700	G	W	N	N	X														
TB-03-202410	10/9/2024	0800	G	W	N	N	X														
TB-04-202410	10/9/2024	0800	G	W	N	N	X														
MW-92-202410	10/9/2024	1455	G	W	N	N	X	X			X		X	X			X				

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
	10/9/24 1730	Ramboll			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10/10/24 1030	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.9/3.9 3.9/3.9

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784378.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-256953-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/23/2024	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ MEE (Dissolved Gases)	SM4500_S2_D/ (MOD) Sulfide, Total	Field Measured Parameters	Special Instructions/Note:
			Preservation Code:							
MW-99-202410 (680-256953-4)	10/9/24	08:26 Central	G	Water			X		2	
MW-186-202410 (680-256953-8)	10/9/24	10:20 Central	G	Water			X		2	
MW-50R-202410 (680-256953-9)	10/9/24	11:20 Central	G	Water				X	2	
TMW-21-202410 (680-256953-10)	10/9/24	11:10 Central	G	Water			X		2	
MW-89-202410 (680-256953-15)	10/9/24	13:40 Central	G	Water				X	2	
TMW-25-202410 (680-256953-24)	10/9/24	16:24 Central	G	Water			X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	10/11/24 1650	Eurofins			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 10/12/24 8:36	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2 IR10

Ver: 05/06/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784394.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-256953-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 10/24/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases -MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-50R-202410 (680-256953-9)	10/9/24	11:20 Central	G	Water			X	2	
MW-89-202410 (680-256953-15)	10/9/24	13:40 Central	G	Water			X	2	
MW-24-202410 (680-256953-16)	10/9/24	14:00 Central	G	Water			X	2	
MW-92-202410 (680-256953-29)	10/9/24	14:55 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	10-11-24 1700				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	10/11/24 0945	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784271.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-256953-1
Address: 481 Newburyport Avenue,	Due Date Requested: 10/22/2024	Analysis Requested		Preservation Codes:
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VFA_HPLC_PREC/ VFAS (8)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-99-202410 (680-256953-4)	10/9/24	08:26 Central	G	Water			X	2	
MW-186-202410 (680-256953-8)	10/9/24	10:20 Central	G	Water			X	2	
TMW-21-202410 (680-256953-10)	10/9/24	11:10 Central	G	Water			X	2	
TMW-25-202410 (680-256953-24)	10/9/24	16:24 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
C. Munro	10/11/24 0915	Eurofins		10/12/24 800	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3/1.3 596

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256953-1

Login Number: 256953

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Rec'd emaill that only VOC vials MW-61R were shipped
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	TOC vials rec'd empty for TMW-25
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256953-1

Login Number: 256953
List Number: 4
Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 10/12/24 05:21 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256953-1

Login Number: 256953
List Number: 2
Creator: Bittle, David W

List Source: Eurofins Orlando
List Creation: 10/12/24 11:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-256953-1

Login Number: 256953
List Number: 3
Creator: Roberts, Darrien

List Source: Eurofins Pensacola
List Creation: 10/12/24 03:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
7500 College Boulevard
Suite 925
Overland Park, Kansas 66210

Generated 10/25/2024 11:54:38 AM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-257064-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

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 Southeast, LLC Project Manager.

Authorization

Generated
10/25/2024 11:54:38 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257064-1	MW-187-202410	Water	10/10/24 09:05	10/11/24 10:05
680-257064-2	ITMW-21-202410	Water	10/10/24 09:15	10/11/24 10:05
680-257064-3	DUP-03-202410	Water	10/10/24 09:15	10/11/24 10:05
680-257064-4	TMW-32-202410	Water	10/10/24 09:00	10/11/24 10:05
680-257064-5	TMW-16-202410	Water	10/10/24 09:06	10/11/24 10:05
680-257064-6	MW-96-202410	Water	10/10/24 09:55	10/11/24 10:05
680-257064-7	DUP-07-202410	Water	10/10/24 09:55	10/11/24 10:05
680-257064-8	MW-61R-202410	Water	10/10/24 09:35	10/11/24 10:05
680-257064-10	TMW-26-202410	Water	10/10/24 10:30	10/11/24 10:05
680-257064-11	MW-194-202410	Water	10/10/24 08:50	10/11/24 10:05
680-257064-15	MW-191-202410	Water	10/10/24 11:15	10/11/24 10:05
680-257064-16	ITMW-16-202410	Water	10/10/24 11:25	10/11/24 10:05
680-257064-17	MW-40R-202410	Water	10/10/24 12:05	10/11/24 10:05
680-257064-18	TMW-34-202410	Water	10/10/24 11:30	10/11/24 10:05
680-257064-19	ITMW-1R-202410	Water	10/10/24 12:10	10/11/24 10:05
680-257064-20	MW-82-202410	Water	10/10/24 12:10	10/11/24 10:05
680-257064-21	MW-189-202410	Water	10/10/24 12:05	10/11/24 10:05
680-257064-22	MW-91-202410	Water	10/10/24 12:25	10/11/24 10:05
680-257064-23	MW-205-202410	Water	10/10/24 13:26	10/11/24 10:05
680-257064-24	MW-197-202410	Water	10/10/24 13:20	10/11/24 10:05
680-257064-25	TMW-22R-202410	Water	10/10/24 13:36	10/11/24 10:05
680-257064-26	MW-68-202410	Water	10/10/24 13:50	10/11/24 10:05
680-257064-27	MW-185-202410	Water	10/10/24 13:00	10/11/24 10:05
680-257064-28	MW-56R-202410	Water	10/10/24 14:15	10/11/24 10:05
680-257064-29	RW-69-202410	Water	10/10/24 14:25	10/11/24 10:05
680-257064-30	MW-201-202410	Water	10/10/24 14:45	10/11/24 10:05
680-257064-31	TMW-12-202410	Water	10/10/24 15:05	10/11/24 10:05
680-257064-32	DUP-08-202410	Water	10/10/24 15:05	10/11/24 10:05
680-257064-33	MW-199-202410	Water	10/10/24 15:25	10/11/24 10:05
680-257064-34	MW-172-202410	Water	10/10/24 15:00	10/11/24 10:05
680-257064-35	MW-83-202410	Water	10/10/24 15:45	10/11/24 10:05
680-257064-36	IW-77-202410	Water	10/10/24 16:00	10/11/24 10:05
680-257064-37	TMW-10-202410	Water	10/10/24 16:15	10/11/24 10:05
680-257064-38	EB-04-202410	Water	10/10/24 17:00	10/11/24 10:05
680-257064-39	TB-05-202410	Water	10/10/24 08:00	10/11/24 10:05
680-257064-40	TB-06-202410	Water	10/10/24 08:00	10/11/24 10:05
680-257064-41	IW-73-202410	Water	10/10/24 16:50	10/11/24 10:05
680-257064-42	MW-198-202410	Water	10/10/24 16:25	10/11/24 10:05
680-257064-43	TB-07-202410	Water	10/10/24 08:00	10/11/24 10:05
680-257064-44	TB-08-202410	Water	10/10/24 08:00	10/11/24 10:05

Job Narrative
680-257064-1

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.

Receipt
The samples were received on 10/11/2024 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.4°C, 4.4°C, 4.7°C and 4.9°C.

Receipt Exceptions
A refrigerator malfunction occured that froze numerous VOC & RSK vials on 10/13/24. Due to this malfunction, all the vials for the following VOC samples broke and testing could not be completed: TMW-16-202410 (680-257064-5), MW-55R-202410 (680-257064-9), TMW-26-202410 (680-257064-10), MW-194-202410 (680-257064-11), TMW-23-202410 (680-257064-12), IW-78-202410 (680-257064-13), and DUP-06-202410 (680-257064-14).

GCMS VOA
Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-205-202410 (680-257064-23), MW-56R-202410 (680-257064-28), TMW-12-202410 (680-257064-31), DUP-08-202410 (680-257064-32), MW-172-202410 (680-257064-34) and MW-198-202410 (680-257064-42). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-860954 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 680-860967 exceeded control limits for the following analyte(s): Bromomethane and Chloroethane, Note that this analyte is a known poor performer when analyzed using this method.

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

GC VOA
Method RSK_175: The following samples were diluted to bring the concentration of target analytes within the calibration range: TMW-26-202410 (680-257064-10), TMW-34-202410 (680-257064-18) and TMW-22R-202410 (680-257064-25). Elevated reporting limits (RLs) are provided.

Method RSK_175: Surrogate recovery for the following samples were outside control limits: MW-83-202410 (680-257064-35), IW-73-202410 (680-257064-41) and MW-198-202410 (680-257064-42). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method RSK_175: The following samples had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): TMW-32-202410 (680-257064-4) and MW-198-202410 (680-257064-42).

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

HPLC/IC
Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 680-860639 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration

range: TMW-26-202410 (680-257064-10), MW-194-202410 (680-257064-11), TMW-34-202410 (680-257064-18), MW-91-202410 (680-257064-22), TMW-22R-202410 (680-257064-25), MW-185-202410 (680-257064-27), RW-69-202410 (680-257064-29), MW-172-202410 (680-257064-34), MW-83-202410 (680-257064-35), TMW-10-202410 (680-257064-37), IW-73-202410 (680-257064-41) and MW-198-202410 (680-257064-42). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-859176 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2_Nitrite: The instrument blank for analytical batch 680-859176 contained nitrite greater than the method detection limit (MDL), and were not reanalyzed because the amount was <1/2 the reporting limit (RL). The data have been qualified and reported.

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 680-859968 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 680-860209 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-187-202410 — Lab Sample ID: 680-257064-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.39	J	1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	110		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: ITMW-21-202410 — Lab Sample ID: 680-257064-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.8		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-03-202410 — Lab Sample ID: 680-257064-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.3		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-32-202410 — Lab Sample ID: 680-257064-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.70	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.7		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.5		1.0	0.20	ug/L	1		8260D	Total/NA
Methane - DL	1500		25	15	ug/L	5		RSK-175	Total/NA
Chloride	62		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Sulfate	34		5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	8.4		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.063	J F1 F2	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.054	J F1	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	8.2		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.24	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	1.5		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: TMW-16-202410 — Lab Sample ID: 680-257064-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethane	11		5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	2.0	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane - DL	9900		250	150	ug/L	50		RSK-175	Total/NA
Chloride	100		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	33		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Butyric acid	7.0		0.50	0.089	mg/L	1		VFA-HPLC	Total/NA
Iron	56		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.81		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.099	J	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	8.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.71		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	56		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.051	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	5.7		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-96-202410 — Lab Sample ID: 680-257064-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: DUP-07-202410 — Lab Sample ID: 680-257064-7

No Detections.

Client Sample ID: MW-61R-202410 — Lab Sample ID: 680-257064-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1300		1.0	0.50	ug/L	1		RSK-175	Total/NA
Chloride	140		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	5.2	J	10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	8.3		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.013	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.081	J F1	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.8		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	8.2		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.15	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: TMW-26-202410 — Lab Sample ID: 680-257064-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	13000		5.0	2.5	ug/L	5		RSK-175	Total/NA
Ethane	1.6		1.0	0.75	ug/L	1		RSK-175	Total/NA
Ethylene	1.7		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	170	F1	5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	42		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	12		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.041	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.069	J	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	6.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	12		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.034	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	5.2		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-194-202410 — Lab Sample ID: 680-257064-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	2000		1.0	0.50	ug/L	1		RSK-175	Total/NA
Chloride	160		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	6.3	J	10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Propionic acid	0.38	J	0.50	0.065	mg/L	1		VFA-HPLC	Total/NA
Iron	6.4		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.15	F1 F2	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.046	J	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.2		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.10		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	6.4		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.044	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	1.2		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-191-202410 — Lab Sample ID: 680-257064-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	20		1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: ITMW-16-202410 — Lab Sample ID: 680-257064-16

No Detections.

Client Sample ID: MW-40R-202410 — Lab Sample ID: 680-257064-17

No Detections.

Client Sample ID: TMW-34-202410 — Lab Sample ID: 680-257064-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	150		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.8		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	16		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.3		1.0	0.40	ug/L	1		8260D	Total/NA
Methane	5700		5.0	2.5	ug/L	5		RSK-175	Total/NA
Ethylene	1.1		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	51		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Sulfate	3.1	J	5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Acetic acid	3.6		0.50	0.18	mg/L	1		VFA-HPLC	Total/NA
Propionic acid	0.69		0.50	0.065	mg/L	1		VFA-HPLC	Total/NA
Iron	14		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.038	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.12		0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	8.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	14		0.10	0.10	mg/L	1		SM 3500	Total/NA
Dissolved Organic Carbon	6.5		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: ITMW-1R-202410 — Lab Sample ID: 680-257064-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	4.8		1.0	0.33	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.61	J	1.0	0.35	ug/L	1		8260D	Total/NA
Trichloroethene	17		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-82-202410 — Lab Sample ID: 680-257064-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.98	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	22		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-189-202410 — Lab Sample ID: 680-257064-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5		1.0	0.27	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene - DL	340		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: MW-91-202410 — Lab Sample ID: 680-257064-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	1.2		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	3.2		1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-91-202410 (Continued) — Lab Sample ID: 680-257064-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.5		1.0	0.40	ug/L	1		8260D	Total/NA
Methane - DL	13000		250	150	ug/L	50		RSK-175	Total/NA
Chloride	51		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Acetic acid	1.5		0.50	0.18	mg/L	1		VFA-HPLC	Total/NA
Butyric acid	0.52		0.50	0.089	mg/L	1		VFA-HPLC	Total/NA
Iron	19		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.025	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.11		0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	18		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	19		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.034	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	2.2		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-205-202410 — Lab Sample ID: 680-257064-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		2.0	0.50	ug/L	2		8260D	Total/NA
1,1-Dichloroethene	5.3		2.0	0.66	ug/L	2		8260D	Total/NA
Trichloroethene - DL	690		10	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: MW-197-202410 — Lab Sample ID: 680-257064-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.82	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.4		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-22R-202410 — Lab Sample ID: 680-257064-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	8.4		5.0	4.6	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	37		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	44		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	19		1.0	0.40	ug/L	1		8260D	Total/NA
Methane	4400		2.0	1.0	ug/L	2		RSK-175	Total/NA
Ethane	3.2		1.0	0.75	ug/L	1		RSK-175	Total/NA
Ethylene	18		1.0	0.55	ug/L	1		RSK-175	Total/NA
Chloride	210		10	4.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	5.5		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.035	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.031	J	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.6		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	5.5		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.033	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	14		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: MW-68-202410 — Lab Sample ID: 680-257064-26

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-185-202410 — Lab Sample ID: 680-257064-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.1		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.6		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	180		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	3.2	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	9.2		5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	0.020	J	0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	4.7		0.50	0.050	mg/L	5		353.2	Total/NA
Nitrate as N	4.7		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA

Client Sample ID: MW-56R-202410 — Lab Sample ID: 680-257064-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	480		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: RW-69-202410 — Lab Sample ID: 680-257064-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.1		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	63		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	28		5.0	3.0	ug/L	1		RSK-175	Total/NA
Iron	0.40		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferrous Iron	0.38	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-201-202410 — Lab Sample ID: 680-257064-30

No Detections.

Client Sample ID: TMW-12-202410 — Lab Sample ID: 680-257064-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.5		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.68	J	1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	240		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: DUP-08-202410 — Lab Sample ID: 680-257064-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.1		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	280		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: MW-199-202410 — Lab Sample ID: 680-257064-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.88	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	82		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-172-202410 — Lab Sample ID: 680-257064-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24		10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	150		1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-172-202410 (Continued) — Lab Sample ID: 680-257064-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	320		5.0	1.0	ug/L	5		8260D	Total/NA
Sulfate	98		20	8.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	3.7		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	2.8		0.20	0.020	mg/L	2		353.2	Total/NA
Nitrite as N	0.014	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	2.8		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	3.7	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-83-202410 — Lab Sample ID: 680-257064-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	3.3		1.0	0.59	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.62	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	28		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	24		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	560		20	8.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	0.097	J	0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.41		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.013	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.40		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	0.027	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: IW-77-202410 — Lab Sample ID: 680-257064-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	79		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-10-202410 — Lab Sample ID: 680-257064-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.75	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	5.0		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	6.5		1.0	0.40	ug/L	1		8260D	Total/NA
Ethane	1.1	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	5.0		5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane - DL	2700		100	60	ug/L	20		RSK-175	Total/NA
Chloride	170		10	4.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	11		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.061	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.077	J	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.6		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	11		0.10	0.10	mg/L	1		SM 3500	Total/NA
Dissolved Organic Carbon	2.4		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: EB-04-202410 — Lab Sample ID: 680-257064-38

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-05-202410 — Lab Sample ID: 680-257064-39

No Detections.

Client Sample ID: TB-06-202410 — Lab Sample ID: 680-257064-40

No Detections.

Client Sample ID: IW-73-202410 — Lab Sample ID: 680-257064-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.0		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	140		1.0	0.20	ug/L	1		8260D	Total/NA
Sulfate	11		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	0.37		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferric Iron	0.37		0.10	0.10	mg/L	1		SM 3500	Total/NA

Client Sample ID: MW-198-202410 — Lab Sample ID: 680-257064-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	590		250	93	ug/L	25		8260D	Total/NA
cis-1,2-Dichloroethene	2100		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	27		25	8.5	ug/L	25		8260D	Total/NA
Trichloroethene	430		25	5.0	ug/L	25		8260D	Total/NA
Vinyl chloride	410		25	10	ug/L	25		8260D	Total/NA
Ethane	1.4	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane	140		5.0	3.0	ug/L	1		RSK-175	Total/NA
Ethylene - DL	730		25	5.0	ug/L	5		RSK-175	Total/NA
Sulfate	53		20	8.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	69		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	5.1		0.50	0.050	mg/L	5		353.2	Total/NA
Nitrite as N	0.36		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	4.7		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	69		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	0.043	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: TB-07-202410 — Lab Sample ID: 680-257064-43

No Detections.

Client Sample ID: TB-08-202410 — Lab Sample ID: 680-257064-44

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-187-202410
Lab Sample ID: 680-257064-1

Date Collected: 10/10/24 09:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:10	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:10	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:10	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:10	1
Bromomethane	<3.7	F1	5.0	3.7	ug/L			10/24/24 12:10	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:10	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:10	1
Chloroethane	<4.6	F1	5.0	4.6	ug/L			10/24/24 12:10	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:10	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:10	1
cis-1,2-Dichloroethene	**3.2**		1.0	0.25	ug/L			10/24/24 12:10	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:10	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:10	1
1,1-Dichloroethane	**0.39**	**J**	1.0	0.33	ug/L			10/24/24 12:10	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:10	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 12:10	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:10	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:10	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:10	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:10	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:10	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:10	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:10	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:10	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:10	1
Trichloroethene	**110**		1.0	0.20	ug/L			10/24/24 12:10	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:10	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/24/24 12:10*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/24/24 12:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/24/24 12:10*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/24/24 12:10*	*1*

Client Sample ID: ITMW-21-202410
Lab Sample ID: 680-257064-2

Date Collected: 10/10/24 09:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 16:40	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 16:40	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 16:40	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 16:40	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 16:40	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 16:40	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 16:40	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 16:40	1

Client Sample ID: ITMW-21-202410
Lab Sample ID: 680-257064-2
Date Collected: 10/10/24 09:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 16:40	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 16:40	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 16:40	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 16:40	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 16:40	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 16:40	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 16:40	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 16:40	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 16:40	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 16:40	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 16:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 16:40	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 16:40	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 16:40	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 16:40	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 16:40	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 16:40	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 16:40	1
Trichloroethene	**4.8**		1.0	0.20	ug/L			10/18/24 16:40	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 16:40	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/18/24 16:40*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/18/24 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/18/24 16:40*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/18/24 16:40*	*1*

Client Sample ID: DUP-03-202410
Lab Sample ID: 680-257064-3
Date Collected: 10/10/24 09:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 17:01	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 17:01	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 17:01	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 17:01	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 17:01	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 17:01	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 17:01	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 17:01	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 17:01	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 17:01	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 17:01	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 17:01	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 17:01	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 17:01	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 17:01	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 17:01	1

Client Sample ID: DUP-03-202410
Lab Sample ID: 680-257064-3
Date Collected: 10/10/24 09:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 17:01	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 17:01	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 17:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 17:01	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 17:01	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 17:01	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 17:01	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 17:01	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 17:01	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 17:01	1
Trichloroethene	**4.3**		1.0	0.20	ug/L			10/18/24 17:01	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 17:01	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/18/24 17:01*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/18/24 17:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/18/24 17:01*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*10/18/24 17:01*	*1*

Client Sample ID: TMW-32-202410
Lab Sample ID: 680-257064-4
Date Collected: 10/10/24 09:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 17:23	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 17:23	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 17:23	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 17:23	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 17:23	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 17:23	1
Chlorobenzene	**0.70**	**J**	1.0	0.15	ug/L			10/18/24 17:23	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 17:23	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 17:23	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 17:23	1
cis-1,2-Dichloroethene	**5.7**		1.0	0.25	ug/L			10/18/24 17:23	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 17:23	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 17:23	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 17:23	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 17:23	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 17:23	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 17:23	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 17:23	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 17:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 17:23	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 17:23	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 17:23	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 17:23	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 17:23	1

Client Sample ID: TMW-32-202410 — **Lab Sample ID: 680-257064-4**
Date Collected: 10/10/24 09:00 — **Matrix: Water**
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 17:23	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 17:23	1
Trichloroethene	**2.5**		1.0	0.20	ug/L			10/18/24 17:23	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 17:23	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/18/24 17:23*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/18/24 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/18/24 17:23*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/18/24 17:23*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:12	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:12	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*10/17/24 10:24*	*10/17/24 20:12*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1500**		25	15	ug/L		10/18/24 11:06	10/18/24 18:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*84*		*43 - 133*	*10/18/24 11:06*	*10/18/24 18:19*	*5*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62**		2.5	1.0	mg/L			10/19/24 17:03	5
Sulfate	**34**		5.0	2.0	mg/L			10/19/24 17:03	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8.4**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.063**	**J F1 F2**	0.10	0.010	mg/L			10/17/24 12:39	1
Nitrite as N (EPA 353.2)	**0.054**	**J F1**	0.10	0.010	mg/L			10/11/24 17:24	1

Client Sample ID: TMW-32-202410
Lab Sample ID: 680-257064-4
Date Collected: 10/10/24 09:00
Matrix: Water
Date Received: 10/11/24 10:05

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	**1.3**		1.0	0.50	mg/L			10/16/24 00:41	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	**8.2**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.24**	**HF**	0.10	0.025	mg/L			10/15/24 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**1.5**		1.0	0.50	mg/L			10/13/24 01:47	1

Client Sample ID: TMW-16-202410
Lab Sample ID: 680-257064-5
Date Collected: 10/10/24 09:06
Matrix: Water
Date Received: 10/11/24 10:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:31	1
Ethane	**11**		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:31	1
Ethylene	**2.0**	**J**	5.0	1.0	ug/L		10/17/24 10:24	10/17/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*10/17/24 10:24*	*10/17/24 20:31*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**9900**		250	150	ug/L		10/18/24 11:06	10/18/24 18:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*102*		*43 - 133*	*10/18/24 11:06*	*10/18/24 18:35*	*50*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		5.0	2.0	mg/L			10/19/24 17:10	10
Sulfate	**33**		10	4.0	mg/L			10/19/24 17:10	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	**7.0**		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**56**		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:17	1

Client Sample ID: TMW-16-202410
Lab Sample ID: 680-257064-5
Date Collected: 10/10/24 09:06
Matrix: Water
Date Received: 10/11/24 10:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.81		0.10	0.010	mg/L			10/17/24 12:48	1
Nitrite as N (EPA 353.2)	0.099	J	0.10	0.010	mg/L			10/11/24 17:27	1
Total Organic Carbon (SM 5310 B-2011)	8.1		1.0	0.50	mg/L			10/16/24 00:57	1
Nitrate as N (SM Nitrate by calc)	0.71		0.10	0.010	mg/L			10/17/24 14:27	1
Ferric Iron (SM 3500)	56		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	0.051	J HF	0.10	0.025	mg/L			10/15/24 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	5.7		1.0	0.50	mg/L			10/13/24 03:26	1

Client Sample ID: MW-96-202410
Lab Sample ID: 680-257064-6
Date Collected: 10/10/24 09:55
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 17:44	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 17:44	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 17:44	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 17:44	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 17:44	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 17:44	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 17:44	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 17:44	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 17:44	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 17:44	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 17:44	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 17:44	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 17:44	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 17:44	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 17:44	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 17:44	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 17:44	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 17:44	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 17:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 17:44	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 17:44	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 17:44	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 17:44	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 17:44	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 17:44	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 17:44	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 17:44	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 17:44	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/18/24 17:44*	*1*

Client Sample ID: MW-96-202410
Lab Sample ID: 680-257064-6
Date Collected: 10/10/24 09:55
Matrix: Water
Date Received: 10/11/24 10:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/18/24 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/18/24 17:44*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/18/24 17:44*	*1*

Client Sample ID: DUP-07-202410
Lab Sample ID: 680-257064-7
Date Collected: 10/10/24 09:55
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 18:06	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 18:06	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 18:06	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 18:06	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 18:06	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 18:06	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 18:06	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 18:06	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 18:06	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 18:06	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 18:06	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 18:06	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 18:06	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 18:06	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 18:06	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 18:06	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 18:06	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 18:06	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 18:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 18:06	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 18:06	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 18:06	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 18:06	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 18:06	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 18:06	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 18:06	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 18:06	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 18:06	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/18/24 18:06*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/18/24 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/18/24 18:06*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/18/24 18:06*	*1*

Client Sample ID: MW-61R-202410
Lab Sample ID: 680-257064-8
Date Collected: 10/10/24 09:35
Matrix: Water
Date Received: 10/11/24 10:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1300		1.0	0.50	ug/L			10/21/24 11:08	1
Ethane	<0.75		1.0	0.75	ug/L			10/21/24 11:08	1
Ethylene	<0.55		1.0	0.55	ug/L			10/21/24 11:08	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.0	2.0	mg/L			10/19/24 17:43	10
Sulfate	5.2	J	10	4.0	mg/L			10/19/24 17:43	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.3		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.013	J	0.10	0.010	mg/L			10/18/24 14:04	1
Nitrite as N (EPA 353.2)	0.081	J F1	0.10	0.010	mg/L			10/11/24 18:25	1
Total Organic Carbon (SM 5310 B-2011)	1.8		1.0	0.50	mg/L			10/16/24 01:15	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	8.2		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	0.15	HF	0.10	0.025	mg/L			10/15/24 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	1.8		1.0	0.50	mg/L			10/13/24 04:01	1

Client Sample ID: TMW-26-202410
Lab Sample ID: 680-257064-10
Date Collected: 10/10/24 10:30
Matrix: Water
Date Received: 10/11/24 10:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	13000		5.0	2.5	ug/L			10/21/24 16:05	5
Ethane	1.6		1.0	0.75	ug/L			10/21/24 11:36	1
Ethylene	1.7		1.0	0.55	ug/L			10/21/24 11:36	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170	F1	5.0	2.0	mg/L			10/22/24 15:19	10

Client Sample ID: TMW-26-202410
Lab Sample ID: 680-257064-10
Date Collected: 10/10/24 10:30
Matrix: Water
Date Received: 10/11/24 10:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**42**		10	4.0	mg/L			10/22/24 15:19	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**12**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.041**	**J**	0.10	0.010	mg/L			10/18/24 14:03	1
Nitrite as N (EPA 353.2)	**0.069**	**J**	0.10	0.010	mg/L			10/11/24 18:28	1
Total Organic Carbon (SM 5310 B-2011)	**6.4**		1.0	0.50	mg/L			10/16/24 01:33	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**12**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.034**	**J HF**	0.10	0.025	mg/L			10/15/24 12:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**5.2**		1.0	0.50	mg/L			10/13/24 04:19	1

Client Sample ID: MW-194-202410
Lab Sample ID: 680-257064-11
Date Collected: 10/10/24 08:50
Matrix: Water
Date Received: 10/11/24 10:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2000**		1.0	0.50	ug/L			10/21/24 11:45	1
Ethane	<0.75		1.0	0.75	ug/L			10/21/24 11:45	1
Ethylene	<0.55		1.0	0.55	ug/L			10/21/24 11:45	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		5.0	2.0	mg/L			10/22/24 15:38	10
Sulfate	**6.3**	**J**	10	4.0	mg/L			10/22/24 15:38	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1

Client Sample ID: MW-194-202410
Lab Sample ID: 680-257064-11
Date Collected: 10/10/24 08:50
Matrix: Water
Date Received: 10/11/24 10:05

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	**0.38**	**J**	0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**6.4**		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.15**	**F1 F2**	0.10	0.010	mg/L			10/18/24 13:57	1
Nitrite as N (EPA 353.2)	**0.046**	**J**	0.10	0.010	mg/L			10/11/24 18:29	1
Total Organic Carbon (SM 5310 B-2011)	**1.2**		1.0	0.50	mg/L			10/16/24 01:50	1
Nitrate as N (SM Nitrate by calc)	**0.10**		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**6.4**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.044**	**J HF**	0.10	0.025	mg/L			10/15/24 12:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**1.2**		1.0	0.50	mg/L			10/13/24 04:36	1

Client Sample ID: MW-191-202410
Lab Sample ID: 680-257064-15
Date Collected: 10/10/24 11:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 18:27	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 18:27	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 18:27	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 18:27	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 18:27	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 18:27	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 18:27	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 18:27	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 18:27	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 18:27	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 18:27	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 18:27	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 18:27	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 18:27	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 18:27	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 18:27	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 18:27	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 18:27	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 18:27	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 18:27	1

Client Sample ID: MW-191-202410
Lab Sample ID: 680-257064-15
Date Collected: 10/10/24 11:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 18:27	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 18:27	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 18:27	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 18:27	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 18:27	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 18:27	1
Trichloroethene	**20**		1.0	0.20	ug/L			10/18/24 18:27	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 18:27	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/18/24 18:27*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/18/24 18:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/18/24 18:27*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/18/24 18:27*	*1*

Client Sample ID: ITMW-16-202410
Lab Sample ID: 680-257064-16
Date Collected: 10/10/24 11:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 18:49	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 18:49	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 18:49	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 18:49	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 18:49	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 18:49	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 18:49	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 18:49	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 18:49	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 18:49	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 18:49	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 18:49	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 18:49	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 18:49	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 18:49	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 18:49	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 18:49	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 18:49	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 18:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 18:49	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 18:49	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 18:49	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 18:49	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 18:49	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 18:49	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 18:49	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 18:49	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 18:49	1

Client Sample ID: ITMW-16-202410
Lab Sample ID: 680-257064-16
Date Collected: 10/10/24 11:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/18/24 18:49*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/18/24 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/18/24 18:49*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/18/24 18:49*	*1*

Client Sample ID: MW-40R-202410
Lab Sample ID: 680-257064-17
Date Collected: 10/10/24 12:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 19:10	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 19:10	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 19:10	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 19:10	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 19:10	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 19:10	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 19:10	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 19:10	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 19:10	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 19:10	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 19:10	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 19:10	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 19:10	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 19:10	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 19:10	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 19:10	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 19:10	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 19:10	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 19:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 19:10	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 19:10	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 19:10	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 19:10	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 19:10	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 19:10	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 19:10	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 19:10	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 19:10	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/18/24 19:10*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/18/24 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/18/24 19:10*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 19:10*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TMW-34-202410
Lab Sample ID: 680-257064-18

Date Collected: 10/10/24 11:30
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**		10	3.7	ug/L			10/23/24 18:28	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 18:28	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 18:28	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 18:28	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 18:28	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 18:28	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 18:28	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 18:28	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 18:28	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 18:28	1
cis-1,2-Dichloroethene	**150**		1.0	0.25	ug/L			10/23/24 18:28	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 18:28	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 18:28	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 18:28	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 18:28	1
1,1-Dichloroethene	**1.8**		1.0	0.33	ug/L			10/23/24 18:28	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 18:28	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 18:28	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 18:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 18:28	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 18:28	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 18:28	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 18:28	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 18:28	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 18:28	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 18:28	1
Trichloroethene	**16**		1.0	0.20	ug/L			10/23/24 18:28	1
Vinyl chloride	**1.3**		1.0	0.40	ug/L			10/23/24 18:28	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*10/23/24 18:28*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/23/24 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/23/24 18:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/23/24 18:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**5700**		5.0	2.5	ug/L			10/21/24 16:19	5
Ethane	<0.75		1.0	0.75	ug/L			10/21/24 11:54	1
Ethylene	**1.1**		1.0	0.55	ug/L			10/21/24 11:54	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51**		2.5	1.0	mg/L			10/22/24 15:44	5
Sulfate	**3.1**	**J**	5.0	2.0	mg/L			10/22/24 15:44	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	**3.6**		0.50	0.18	mg/L			10/16/24 16:00	1

Client Sample ID: TMW-34-202410
Lab Sample ID: 680-257064-18
Date Collected: 10/10/24 11:30
Matrix: Water
Date Received: 10/11/24 10:05

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	**0.69**		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**14**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.038**	**J**	0.10	0.010	mg/L			10/18/24 13:50	1
Nitrite as N (EPA 353.2)	**0.12**		0.10	0.010	mg/L			10/11/24 18:30	1
Total Organic Carbon (SM 5310 B-2011)	**8.3**		1.0	0.50	mg/L			10/16/24 02:08	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**14**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**6.5**		1.0	0.50	mg/L			10/13/24 04:54	1

Client Sample ID: ITMW-1R-202410
Lab Sample ID: 680-257064-19
Date Collected: 10/10/24 12:10
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 18:49	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 18:49	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 18:49	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 18:49	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 18:49	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 18:49	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 18:49	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 18:49	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 18:49	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 18:49	1
cis-1,2-Dichloroethene	**20**		1.0	0.25	ug/L			10/23/24 18:49	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 18:49	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 18:49	1
1,1-Dichloroethane	**4.8**		1.0	0.33	ug/L			10/23/24 18:49	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 18:49	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 18:49	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 18:49	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 18:49	1

Client Sample ID: ITMW-1R-202410
Lab Sample ID: 680-257064-19

Date Collected: 10/10/24 12:10
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 18:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 18:49	1
Tetrachloroethene	**0.61**	**J**	1.0	0.35	ug/L			10/23/24 18:49	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 18:49	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 18:49	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 18:49	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 18:49	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 18:49	1
Trichloroethene	**17**		1.0	0.20	ug/L			10/23/24 18:49	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 18:49	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*10/23/24 18:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/23/24 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/23/24 18:49*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/23/24 18:49*	*1*

Client Sample ID: MW-82-202410
Lab Sample ID: 680-257064-20

Date Collected: 10/10/24 12:10
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**15**		10	3.7	ug/L			10/23/24 19:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 19:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 19:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 19:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 19:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 19:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 19:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 19:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 19:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 19:11	1
cis-1,2-Dichloroethene	**0.98**	**J**	1.0	0.25	ug/L			10/23/24 19:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 19:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 19:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 19:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 19:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 19:11	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 19:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 19:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 19:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 19:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 19:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 19:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 19:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 19:11	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 19:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 19:11	1

Client Sample ID: MW-82-202410
Lab Sample ID: 680-257064-20
Date Collected: 10/10/24 12:10
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**22**		1.0	0.20	ug/L			10/23/24 19:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 19:11	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*10/23/24 19:11*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/23/24 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/23/24 19:11*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/24 19:11*	*1*

Client Sample ID: MW-189-202410
Lab Sample ID: 680-257064-21
Date Collected: 10/10/24 12:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 19:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 19:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 19:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 19:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 19:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 19:32	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 19:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 19:32	1
Chloroform	**1.5**		1.0	0.27	ug/L			10/23/24 19:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 19:32	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/23/24 19:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 19:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 19:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 19:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 19:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 19:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 19:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 19:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 19:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 19:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 19:32	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 19:32	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 19:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 19:32	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 19:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 19:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 19:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*10/23/24 19:32*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/24 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/23/24 19:32*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/23/24 19:32*	*1*

Client Sample ID: MW-189-202410
Lab Sample ID: 680-257064-21
Date Collected: 10/10/24 12:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**340**		5.0	1.0	ug/L			10/24/24 14:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/24/24 14:29*	*5*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/24/24 14:29*	*5*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 14:29*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 14:29*	*5*

Client Sample ID: MW-91-202410
Lab Sample ID: 680-257064-22
Date Collected: 10/10/24 12:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 19:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 19:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 19:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 19:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 19:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 19:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 19:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 19:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 19:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 19:53	1
cis-1,2-Dichloroethene	**24**		1.0	0.25	ug/L			10/23/24 19:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 19:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 19:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 19:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 19:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 19:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 19:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 19:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 19:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 19:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 19:53	1
Toluene	**1.2**		1.0	0.25	ug/L			10/23/24 19:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 19:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 19:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 19:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 19:53	1
Trichloroethene	**3.2**		1.0	0.20	ug/L			10/24/24 12:32	1
Vinyl chloride	**1.5**		1.0	0.40	ug/L			10/23/24 19:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*10/23/24 19:53*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/24/24 12:32*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/23/24 19:53*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/24/24 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/23/24 19:53*	*1*

Client Sample ID: MW-91-202410
Date Collected: 10/10/24 12:25
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-22
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/24/24 12:32*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/24 19:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 12:32*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:09	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:09	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*62*		*43 - 133*	*10/17/24 10:24*	*10/17/24 21:09*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		250	150	ug/L		10/18/24 11:06	10/18/24 18:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*101*		*43 - 133*	*10/18/24 11:06*	*10/18/24 18:52*	*50*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51**		2.5	1.0	mg/L			10/22/24 15:51	5
Sulfate	<2.0		5.0	2.0	mg/L			10/22/24 15:51	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	**1.5**		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	**0.52**		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**19**		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.025**	**J**	0.10	0.010	mg/L			10/18/24 13:48	1
Nitrite as N (EPA 353.2)	**0.11**		0.10	0.010	mg/L			10/11/24 17:28	1
Total Organic Carbon (SM 5310 B-2011)	**18**		1.0	0.50	mg/L			10/16/24 02:24	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**19**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.034**	**J HF**	0.10	0.025	mg/L			10/15/24 12:51	1

Client Sample ID: MW-91-202410
Lab Sample ID: 680-257064-22
Date Collected: 10/10/24 12:25
Matrix: Water
Date Received: 10/11/24 10:05

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	2.2		1.0	0.50	mg/L			10/13/24 05:12	1

Client Sample ID: MW-205-202410
Lab Sample ID: 680-257064-23
Date Collected: 10/10/24 13:26
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.4		20	7.4	ug/L			10/23/24 18:36	2
Benzene	<0.54		2.0	0.54	ug/L			10/23/24 18:36	2
Bromochloromethane	<0.68		2.0	0.68	ug/L			10/23/24 18:36	2
Bromoform	<1.2		2.0	1.2	ug/L			10/23/24 18:36	2
Bromomethane	<7.4		10	7.4	ug/L			10/23/24 18:36	2
Carbon tetrachloride	<0.60		2.0	0.60	ug/L			10/23/24 18:36	2
Chlorobenzene	<0.30		2.0	0.30	ug/L			10/23/24 18:36	2
Chloroethane	<9.2		10	9.2	ug/L			10/23/24 18:36	2
Chloroform	<0.54		2.0	0.54	ug/L			10/23/24 18:36	2
Chloromethane	<1.1		2.0	1.1	ug/L			10/23/24 18:36	2
cis-1,2-Dichloroethene	100		2.0	0.50	ug/L			10/23/24 18:36	2
cis-1,3-Dichloropropene	<0.52		2.0	0.52	ug/L			10/23/24 18:36	2
Dibromochloromethane	<0.78		2.0	0.78	ug/L			10/23/24 18:36	2
1,1-Dichloroethane	<0.66		2.0	0.66	ug/L			10/23/24 18:36	2
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			10/23/24 18:36	2
1,1-Dichloroethene	5.3		2.0	0.66	ug/L			10/23/24 18:36	2
1,3-Dichloropropene, Total	<0.96		4.0	0.96	ug/L			10/23/24 18:36	2
Ethylbenzene	<0.40		2.0	0.40	ug/L			10/23/24 18:36	2
4-Methyl-2-pentanone (MIBK)	<5.4		20	5.4	ug/L			10/23/24 18:36	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			10/23/24 18:36	2
Tetrachloroethene	<0.70		2.0	0.70	ug/L			10/23/24 18:36	2
Toluene	<0.50		2.0	0.50	ug/L			10/23/24 18:36	2
trans-1,2-Dichloroethene	<0.68		2.0	0.68	ug/L			10/23/24 18:36	2
trans-1,3-Dichloropropene	<0.46		2.0	0.46	ug/L			10/23/24 18:36	2
1,1,1-Trichloroethane	<0.42		2.0	0.42	ug/L			10/23/24 18:36	2
1,1,2-Trichloroethane	<0.64		2.0	0.64	ug/L			10/23/24 18:36	2
Vinyl chloride	<0.80		2.0	0.80	ug/L			10/23/24 18:36	2
Xylenes, Total	<0.46		2.0	0.46	ug/L			10/23/24 18:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/23/24 18:36*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/23/24 18:36*	*2*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/23/24 18:36*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/23/24 18:36*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	690		10	2.0	ug/L			10/24/24 14:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/24/24 14:04*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 14:04*	*10*

Client Sample ID: MW-205-202410
Lab Sample ID: 680-257064-23
Date Collected: 10/10/24 13:26
Matrix: Water
Date Received: 10/11/24 10:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/24/24 14:04*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/24/24 14:04*	*10*

Client Sample ID: MW-197-202410
Lab Sample ID: 680-257064-24
Date Collected: 10/10/24 13:20
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:32	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:32	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:32	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:32	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:32	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:32	1
Chlorobenzene	**0.82**	**J**	1.0	0.15	ug/L			10/24/24 12:32	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:32	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:32	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:32	1
cis-1,2-Dichloroethene	**7.8**		1.0	0.25	ug/L			10/24/24 12:32	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:32	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:32	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:32	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:32	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 12:32	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:32	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:32	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:32	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:32	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:32	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:32	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:32	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:32	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:32	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:32	1
Trichloroethene	**1.4**		1.0	0.20	ug/L			10/24/24 12:32	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:32	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/24/24 12:32*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/24/24 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 12:32*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/24/24 12:32*	*1*

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: TMW-22R-202410

Date Collected: 10/10/24 13:36
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 17:51	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 17:51	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 17:51	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 17:51	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 17:51	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 17:51	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 17:51	1
Chloroethane	**8.4**		5.0	4.6	ug/L			10/23/24 17:51	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 17:51	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 17:51	1
cis-1,2-Dichloroethene	**37**		1.0	0.25	ug/L			10/23/24 17:51	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 17:51	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 17:51	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 17:51	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 17:51	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 17:51	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 17:51	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 17:51	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 17:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 17:51	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 17:51	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 17:51	1
trans-1,2-Dichloroethene	**1.7**		1.0	0.34	ug/L			10/23/24 17:51	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 17:51	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 17:51	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 17:51	1
Trichloroethene	**44**		1.0	0.20	ug/L			10/23/24 17:51	1
Vinyl chloride	**19**		1.0	0.40	ug/L			10/23/24 17:51	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/23/24 17:51*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/23/24 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/23/24 17:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/23/24 17:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4400**		2.0	1.0	ug/L			10/21/24 16:30	2
Ethane	**3.2**		1.0	0.75	ug/L			10/21/24 12:03	1
Ethylene	**18**		1.0	0.55	ug/L			10/21/24 12:03	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		10	4.0	mg/L			10/22/24 15:57	20
Sulfate	<8.0		20	8.0	mg/L			10/22/24 15:57	20

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1

Client Sample ID: TMW-22R-202410
Lab Sample ID: 680-257064-25
Date Collected: 10/10/24 13:36
Matrix: Water
Date Received: 10/11/24 10:05

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.5**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.035**	**J**	0.10	0.010	mg/L			10/18/24 13:46	1
Nitrite as N (EPA 353.2)	**0.031**	**J**	0.10	0.010	mg/L			10/11/24 18:31	1
Total Organic Carbon (SM 5310 B-2011)	**2.6**		1.0	0.50	mg/L			10/16/24 02:44	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**5.5**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.033**	**J HF**	0.10	0.025	mg/L			10/15/24 12:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**14**		1.0	0.50	mg/L			10/13/24 05:30	1

Client Sample ID: MW-68-202410
Lab Sample ID: 680-257064-26
Date Collected: 10/10/24 13:50
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:30	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:30	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:30	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:30	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:30	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:30	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:30	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:30	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:30	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:30	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 12:30	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:30	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:30	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:30	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:30	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 12:30	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:30	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:30	1

Client Sample ID: MW-68-202410
Lab Sample ID: 680-257064-26
Date Collected: 10/10/24 13:50
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:30	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:30	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:30	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:30	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:30	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:30	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:30	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:30	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 12:30	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:30	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/24/24 12:30*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/24/24 12:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 12:30*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/24/24 12:30*	*1*

Client Sample ID: MW-185-202410
Lab Sample ID: 680-257064-27
Date Collected: 10/10/24 13:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 18:12	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 18:12	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 18:12	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 18:12	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 18:12	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 18:12	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 18:12	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 18:12	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 18:12	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 18:12	1
cis-1,2-Dichloroethene	**8.1**		1.0	0.25	ug/L			10/23/24 18:12	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 18:12	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 18:12	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 18:12	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 18:12	1
1,1-Dichloroethene	**1.6**		1.0	0.33	ug/L			10/23/24 18:12	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 18:12	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 18:12	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 18:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 18:12	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 18:12	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 18:12	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 18:12	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 18:12	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 18:12	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 18:12	1

Client Sample ID: MW-185-202410
Lab Sample ID: 680-257064-27
Date Collected: 10/10/24 13:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**180**		1.0	0.20	ug/L			10/23/24 18:12	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 18:12	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/23/24 18:12*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/24 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/23/24 18:12*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/24 18:12*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:27	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:27	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:27	1
Methane	**3.2**	**J**	5.0	3.0	ug/L		10/17/24 10:24	10/17/24 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*51*		*43 - 133*	*10/17/24 10:24*	*10/17/24 21:27*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**9.2**		5.0	2.0	mg/L			10/22/24 16:04	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.020**	**J**	0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**4.7**		0.50	0.050	mg/L			10/18/24 14:49	5
Nitrite as N (EPA 353.2)	<0.010		0.10	0.010	mg/L			10/11/24 17:29	1
Nitrate as N (SM Nitrate by calc)	**4.7**		0.10	0.010	mg/L			10/20/24 14:26	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:51	1

Client Sample ID: MW-56R-202410
Lab Sample ID: 680-257064-28
Date Collected: 10/10/24 14:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		50	19	ug/L			10/24/24 16:44	5
Benzene	<1.4		5.0	1.4	ug/L			10/24/24 16:44	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/24/24 16:44	5
Bromoform	<3.0		5.0	3.0	ug/L			10/24/24 16:44	5
Bromomethane	<19		25	19	ug/L			10/24/24 16:44	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/24/24 16:44	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/24/24 16:44	5
Chloroethane	<23		25	23	ug/L			10/24/24 16:44	5
Chloroform	<1.4		5.0	1.4	ug/L			10/24/24 16:44	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/24/24 16:44	5

Client Sample ID: MW-56R-202410
Lab Sample ID: 680-257064-28
Date Collected: 10/10/24 14:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			10/24/24 16:44	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/24/24 16:44	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/24/24 16:44	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/24/24 16:44	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/24/24 16:44	5
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/24/24 16:44	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/24/24 16:44	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/24/24 16:44	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/24/24 16:44	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/24/24 16:44	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/24/24 16:44	5
Toluene	<1.3		5.0	1.3	ug/L			10/24/24 16:44	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/24/24 16:44	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/24/24 16:44	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/24/24 16:44	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/24/24 16:44	5
Trichloroethene	**480**		5.0	1.0	ug/L			10/24/24 16:44	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/24/24 16:44	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/24/24 16:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/24/24 16:44*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/24/24 16:44*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/24 16:44*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 16:44*	*5*

Client Sample ID: RW-69-202410
Lab Sample ID: 680-257064-29
Date Collected: 10/10/24 14:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:53	1
cis-1,2-Dichloroethene	**3.4**		1.0	0.25	ug/L			10/24/24 12:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:53	1
1,1-Dichloroethene	**1.1**		1.0	0.33	ug/L			10/24/24 12:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:53	1

Client Sample ID: RW-69-202410
Lab Sample ID: 680-257064-29
Date Collected: 10/10/24 14:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:53	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:53	1
Trichloroethene	**63**		1.0	0.20	ug/L			10/24/24 12:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/24/24 12:53*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/24/24 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 12:53*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/24/24 12:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:46	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:46	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 21:46	1
Methane	**28**		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*10/17/24 10:24*	*10/17/24 21:46*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<8.0		20	8.0	mg/L			10/22/24 16:29	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.40**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.38**	**HF**	0.10	0.025	mg/L			10/15/24 12:35	1

Client Sample ID: MW-201-202410
Lab Sample ID: 680-257064-30
Date Collected: 10/10/24 14:45
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:52	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:52	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:52	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:52	1

Client Sample ID: MW-201-202410
Lab Sample ID: 680-257064-30
Date Collected: 10/10/24 14:45
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:52	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:52	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:52	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:52	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:52	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:52	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 12:52	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:52	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:52	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:52	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:52	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 12:52	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:52	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:52	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:52	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:52	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:52	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:52	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:52	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:52	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:52	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 12:52	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:52	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/24/24 12:52*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/24/24 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 12:52*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/24/24 12:52*	*1*

Client Sample ID: TMW-12-202410
Lab Sample ID: 680-257064-31
Date Collected: 10/10/24 15:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 13:13	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 13:13	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 13:13	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 13:13	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 13:13	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 13:13	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 13:13	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 13:13	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 13:13	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 13:13	1
cis-1,2-Dichloroethene	**6.5**		1.0	0.25	ug/L			10/24/24 13:13	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 13:13	1

Client Sample ID: TMW-12-202410
Lab Sample ID: 680-257064-31
Date Collected: 10/10/24 15:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 13:13	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 13:13	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 13:13	1
1,1-Dichloroethene	**0.68**	**J**	1.0	0.33	ug/L			10/24/24 13:13	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 13:13	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 13:13	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 13:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 13:13	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 13:13	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 13:13	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 13:13	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 13:13	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 13:13	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 13:13	1
Trichloroethene	**240**		5.0	1.0	ug/L			10/24/24 14:54	5
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 13:13	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/24/24 13:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/24/24 14:54*	*5*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/24/24 13:13*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/24/24 14:54*	*5*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 14:54*	*5*
Toluene-d8 (Surr)	*84*		*70 - 130*		*10/24/24 13:13*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/24/24 14:54*	*5*

Client Sample ID: DUP-08-202410
Lab Sample ID: 680-257064-32
Date Collected: 10/10/24 15:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 13:35	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 13:35	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 13:35	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 13:35	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 13:35	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 13:35	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 13:35	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 13:35	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 13:35	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 13:35	1
cis-1,2-Dichloroethene	**6.1**		1.0	0.25	ug/L			10/24/24 13:35	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 13:35	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 13:35	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 13:35	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 13:35	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 13:35	1

Client Sample ID: DUP-08-202410
Lab Sample ID: 680-257064-32
Date Collected: 10/10/24 15:05
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 13:35	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 13:35	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 13:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 13:35	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 13:35	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 13:35	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 13:35	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 13:35	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 13:35	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 13:35	1
Trichloroethene	**280**		5.0	1.0	ug/L			10/24/24 14:23	5
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 13:35	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/24/24 13:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/24/24 14:23*	*5*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*10/24/24 13:35*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/24/24 14:23*	*5*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/24/24 13:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/24/24 14:23*	*5*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/24/24 13:35*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/24/24 14:23*	*5*

Client Sample ID: MW-199-202410
Lab Sample ID: 680-257064-33
Date Collected: 10/10/24 15:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 15:07	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 15:07	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 15:07	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 15:07	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 15:07	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 15:07	1
Chlorobenzene	**0.88**	**J**	1.0	0.15	ug/L			10/24/24 15:07	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 15:07	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 15:07	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 15:07	1
cis-1,2-Dichloroethene	**7.8**		1.0	0.25	ug/L			10/24/24 15:07	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 15:07	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 15:07	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 15:07	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 15:07	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 15:07	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 15:07	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 15:07	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 15:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 15:07	1

Client Sample ID: MW-199-202410
Lab Sample ID: 680-257064-33
Date Collected: 10/10/24 15:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 15:07	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 15:07	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 15:07	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 15:07	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 15:07	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 15:07	1
Trichloroethene	**82**		1.0	0.20	ug/L			10/24/24 15:07	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 15:07	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*10/24/24 15:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/24/24 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/24/24 15:07*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/24/24 15:07*	*1*

Client Sample ID: MW-172-202410
Lab Sample ID: 680-257064-34
Date Collected: 10/10/24 15:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**24**		10	3.7	ug/L			10/24/24 14:18	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 14:18	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 14:18	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 14:18	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 14:18	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 14:18	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 14:18	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 14:18	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 14:18	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 14:18	1
cis-1,2-Dichloroethene	**150**		1.0	0.25	ug/L			10/24/24 14:18	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 14:18	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 14:18	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 14:18	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 14:18	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 14:18	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 14:18	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 14:18	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 14:18	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 14:18	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 14:18	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 14:18	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 14:18	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 14:18	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 14:18	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 14:18	1
Trichloroethene	**320**		5.0	1.0	ug/L			10/24/24 15:43	5
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 14:18	1

Client Sample ID: MW-172-202410
Lab Sample ID: 680-257064-34
Date Collected: 10/10/24 15:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 14:18*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/24/24 15:43*	*5*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/24/24 14:18*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 15:43*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/24 14:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/24/24 15:43*	*5*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/24/24 14:18*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 15:43*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:05	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:05	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:05	1
Methane	<3.0		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*10/17/24 10:24*	*10/17/24 22:05*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**98**		20	8.0	mg/L			10/22/24 16:36	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.7**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**2.8**		0.20	0.020	mg/L			10/18/24 14:48	2
Nitrite as N (EPA 353.2)	**0.014**	**J**	0.10	0.010	mg/L			10/11/24 17:30	1
Nitrate as N (SM Nitrate by calc)	**2.8**		0.10	0.010	mg/L			10/20/24 14:26	1
Ferrous Iron (SM 3500 FE D)	**3.7**	**HF**	0.10	0.025	mg/L			10/15/24 12:35	1

Client Sample ID: MW-83-202410
Lab Sample ID: 680-257064-35
Date Collected: 10/10/24 15:45
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 13:12	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 13:12	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 13:12	1
Bromoform	**3.3**		1.0	0.59	ug/L			10/24/24 13:12	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 13:12	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 13:12	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 13:12	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 13:12	1

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-83-202410
Lab Sample ID: 680-257064-35
Date Collected: 10/10/24 15:45
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 13:12	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 13:12	1
cis-1,2-Dichloroethene	**0.62**	**J**	1.0	0.25	ug/L			10/24/24 13:12	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 13:12	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 13:12	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 13:12	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 13:12	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 13:12	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 13:12	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 13:12	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 13:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 13:12	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 13:12	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 13:12	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 13:12	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 13:12	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 13:12	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 13:12	1
Trichloroethene	**28**		1.0	0.20	ug/L			10/24/24 13:12	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 13:12	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/24/24 13:12*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/24/24 13:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 13:12*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:24	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:24	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:24	1
Methane	**24**		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*11*	*S1-*	*43 - 133*	*10/17/24 10:24*	*10/17/24 22:24*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**560**		20	8.0	mg/L			10/22/24 16:42	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.097**	**J**	0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.41**		0.10	0.010	mg/L			10/18/24 13:41	1
Nitrite as N (EPA 353.2)	**0.013**	**J**	0.10	0.010	mg/L			10/11/24 17:31	1
Nitrate as N (SM Nitrate by calc)	**0.40**		0.10	0.010	mg/L			10/20/24 14:26	1

Client Sample ID: MW-83-202410
Lab Sample ID: 680-257064-35
Date Collected: 10/10/24 15:45
Matrix: Water
Date Received: 10/11/24 10:05

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 FE D)	**0.027**	**J HF**	0.10	0.025	mg/L			10/15/24 12:51	1

Client Sample ID: IW-77-202410
Lab Sample ID: 680-257064-36
Date Collected: 10/10/24 16:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 13:34	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 13:34	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 13:34	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 13:34	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 13:34	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 13:34	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 13:34	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 13:34	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 13:34	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 13:34	1
cis-1,2-Dichloroethene	**2.9**		1.0	0.25	ug/L			10/24/24 13:34	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 13:34	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 13:34	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 13:34	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 13:34	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 13:34	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 13:34	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 13:34	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 13:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 13:34	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 13:34	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 13:34	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 13:34	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 13:34	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 13:34	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 13:34	1
Trichloroethene	**79**		1.0	0.20	ug/L			10/24/24 13:34	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 13:34	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/24/24 13:34*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/24/24 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 13:34*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 13:34*	*1*

Client Sample ID: TMW-10-202410
Lab Sample ID: 680-257064-37
Date Collected: 10/10/24 16:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 13:55	1

Client Sample ID: TMW-10-202410
Lab Sample ID: 680-257064-37

Date Collected: 10/10/24 16:15
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 13:55	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 13:55	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 13:55	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 13:55	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 13:55	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 13:55	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 13:55	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 13:55	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 13:55	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.25	ug/L			10/24/24 13:55	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 13:55	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 13:55	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 13:55	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 13:55	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 13:55	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 13:55	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 13:55	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 13:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 13:55	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 13:55	1
Toluene	**0.75**	**J**	1.0	0.25	ug/L			10/24/24 13:55	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 13:55	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 13:55	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 13:55	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 13:55	1
Trichloroethene	**5.0**		1.0	0.20	ug/L			10/24/24 13:55	1
Vinyl chloride	**6.5**		1.0	0.40	ug/L			10/24/24 13:55	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/24/24 13:55*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/24/24 13:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 13:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:43	1
Ethane	**1.1**	**J**	5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:43	1
Ethylene	**5.0**		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*55*		*43 - 133*	*10/17/24 10:24*	*10/17/24 22:43*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**2700**		100	60	ug/L		10/18/24 11:06	10/18/24 19:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*99*		*43 - 133*	*10/18/24 11:06*	*10/18/24 19:26*	*20*

Client Sample ID: TMW-10-202410
Lab Sample ID: 680-257064-37
Date Collected: 10/10/24 16:15
Matrix: Water
Date Received: 10/11/24 10:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		10	4.0	mg/L			10/22/24 16:50	20
Sulfate	<8.0		20	8.0	mg/L			10/22/24 16:50	20

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**11**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.061**	**J**	0.10	0.010	mg/L			10/18/24 13:39	1
Nitrite as N (EPA 353.2)	**0.077**	**J**	0.10	0.010	mg/L			10/11/24 18:32	1
Total Organic Carbon (SM 5310 B-2011)	**2.6**		1.0	0.50	mg/L			10/16/24 03:02	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**11**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:44	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**2.4**		1.0	0.50	mg/L			10/13/24 05:47	1

Client Sample ID: EB-04-202410
Lab Sample ID: 680-257064-38
Date Collected: 10/10/24 17:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:26	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:26	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:26	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:26	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:26	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:26	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:26	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:26	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:26	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:26	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1

Client Sample ID: EB-04-202410
Lab Sample ID: 680-257064-38
Date Collected: 10/10/24 17:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:26	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:26	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:26	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:26	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:26	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:26	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:26	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:26	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:26	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:26	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:26	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:26	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:26	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/24/24 11:26*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/24/24 11:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 11:26*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/24/24 11:26*	*1*

Client Sample ID: TB-05-202410
Lab Sample ID: 680-257064-39
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:48	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:48	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:48	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:48	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:48	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:48	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:48	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:48	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:48	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:48	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:48	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:48	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:48	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:48	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:48	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:48	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:48	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:48	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:48	1

Client Sample ID: TB-05-202410
Lab Sample ID: 680-257064-39
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:48	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:48	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:48	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:48	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:48	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:48	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:48	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:48	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:48	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/24/24 11:48*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/24/24 11:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 11:48*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/24/24 11:48*	*1*

Client Sample ID: TB-06-202410
Lab Sample ID: 680-257064-40
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 14:17	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 14:17	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 14:17	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 14:17	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 14:17	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 14:17	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 14:17	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 14:17	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 14:17	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 14:17	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 14:17	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 14:17	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 14:17	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 14:17	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 14:17	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 14:17	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 14:17	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 14:17	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 14:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 14:17	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 14:17	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 14:17	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 14:17	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 14:17	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 14:17	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 14:17	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 14:17	1

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-06-202410
Lab Sample ID: 680-257064-40
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 14:17	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 14:17*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/24/24 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/24/24 14:17*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 14:17*	*1*

Client Sample ID: IW-73-202410
Lab Sample ID: 680-257064-41
Date Collected: 10/10/24 16:50
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:51	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:51	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:51	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:51	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:51	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:51	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:51	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:51	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:51	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:51	1
cis-1,2-Dichloroethene	**4.3**		1.0	0.25	ug/L			10/24/24 12:51	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:51	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:51	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:51	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:51	1
1,1-Dichloroethene	**1.0**		1.0	0.33	ug/L			10/24/24 12:51	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:51	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:51	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:51	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:51	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:51	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:51	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:51	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:51	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:51	1
Trichloroethene	**140**		1.0	0.20	ug/L			10/24/24 12:51	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:51	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/24 12:51*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/24/24 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 12:51*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/24/24 12:51*	*1*

Client Sample ID: IW-73-202410
Lab Sample ID: 680-257064-41
Date Collected: 10/10/24 16:50
Matrix: Water
Date Received: 10/11/24 10:05

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 23:01	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 23:01	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 23:01	1
Methane	<3.0		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*33*	*S1-*	*43 - 133*	*10/17/24 10:24*	*10/17/24 23:01*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**11**		10	4.0	mg/L			10/22/24 16:56	10

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.37**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	**0.37**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:51	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client Sample ID: MW-198-202410
Lab Sample ID: 680-257064-42
Date Collected: 10/10/24 16:25
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**590**		250	93	ug/L			10/24/24 15:30	25
Benzene	<6.8		25	6.8	ug/L			10/24/24 15:30	25
Bromochloromethane	<8.5		25	8.5	ug/L			10/24/24 15:30	25
Bromoform	<15		25	15	ug/L			10/24/24 15:30	25
Bromomethane	<93		130	93	ug/L			10/24/24 15:30	25
Carbon tetrachloride	<7.5		25	7.5	ug/L			10/24/24 15:30	25
Chlorobenzene	<3.8		25	3.8	ug/L			10/24/24 15:30	25
Chloroethane	<120		130	120	ug/L			10/24/24 15:30	25
Chloroform	<6.8		25	6.8	ug/L			10/24/24 15:30	25
Chloromethane	<14		25	14	ug/L			10/24/24 15:30	25
cis-1,2-Dichloroethene	**2100**		25	6.3	ug/L			10/24/24 15:30	25
cis-1,3-Dichloropropene	<6.5		25	6.5	ug/L			10/24/24 15:30	25
Dibromochloromethane	<9.8		25	9.8	ug/L			10/24/24 15:30	25
1,1-Dichloroethane	<8.3		25	8.3	ug/L			10/24/24 15:30	25
1,2-Dichloroethane	<6.3		25	6.3	ug/L			10/24/24 15:30	25
1,1-Dichloroethene	<8.3		25	8.3	ug/L			10/24/24 15:30	25
1,3-Dichloropropene, Total	<12		50	12	ug/L			10/24/24 15:30	25
Ethylbenzene	<5.0		25	5.0	ug/L			10/24/24 15:30	25
4-Methyl-2-pentanone (MIBK)	<68		250	68	ug/L			10/24/24 15:30	25
1,1,2,2-Tetrachloroethane	<10		25	10	ug/L			10/24/24 15:30	25
Tetrachloroethene	<8.8		25	8.8	ug/L			10/24/24 15:30	25
Toluene	<6.3		25	6.3	ug/L			10/24/24 15:30	25
trans-1,2-Dichloroethene	**27**		25	8.5	ug/L			10/24/24 15:30	25

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: MW-198-202410

Date Collected: 10/10/24 16:25
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-42

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<5.8		25	5.8	ug/L			10/24/24 15:30	25
1,1,1-Trichloroethane	<5.3		25	5.3	ug/L			10/24/24 15:30	25
1,1,2-Trichloroethane	<8.0		25	8.0	ug/L			10/24/24 15:30	25
Trichloroethene	**430**		25	5.0	ug/L			10/24/24 15:30	25
Vinyl chloride	**410**		25	10	ug/L			10/24/24 15:30	25
Xylenes, Total	<5.8		25	5.8	ug/L			10/24/24 15:30	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*10/24/24 15:30*	*25*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/24/24 15:30*	*25*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/24/24 15:30*	*25*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/24/24 15:30*	*25*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 23:20	1
Ethane	**1.4**	**J**	5.0	1.0	ug/L		10/17/24 10:24	10/17/24 23:20	1
Methane	**140**		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*42*	*S1-*	*43 - 133*	*10/17/24 10:24*	*10/17/24 23:20*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene	**730**		25	5.0	ug/L		10/18/24 11:06	10/18/24 20:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*64*		*43 - 133*	*10/18/24 11:06*	*10/18/24 20:20*	*5*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**53**		20	8.0	mg/L			10/22/24 17:15	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**69**		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**5.1**		0.50	0.050	mg/L			10/18/24 14:48	5
Nitrite as N (EPA 353.2)	**0.36**		0.10	0.010	mg/L			10/11/24 17:31	1
Nitrate as N (SM Nitrate by calc)	**4.7**		0.10	0.010	mg/L			10/20/24 14:26	1
Ferric Iron (SM 3500)	**69**		0.10	0.10	mg/L			10/23/24 16:00	1
Ferrous Iron (SM 3500 FE D)	**0.043**	**J HF**	0.10	0.025	mg/L			10/15/24 12:27	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-07-202410
Lab Sample ID: 680-257064-43
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:47	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:47	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:47	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:47	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:47	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:47	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:47	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:47	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:47	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:47	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:47	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:47	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:47	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:47	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:47	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:47	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:47	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:47	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:47	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:47	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:47	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:47	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:47	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:47	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/24/24 11:47*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/24/24 11:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/24/24 11:47*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/24/24 11:47*	*1*

Client Sample ID: TB-08-202410
Lab Sample ID: 680-257064-44
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 12:09	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 12:09	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 12:09	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 12:09	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 12:09	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 12:09	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 12:09	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 12:09	1

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-08-202410
Lab Sample ID: 680-257064-44
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 12:09	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 12:09	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 12:09	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 12:09	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 12:09	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 12:09	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 12:09	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 12:09	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 12:09	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 12:09	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 12:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 12:09	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 12:09	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 12:09	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 12:09	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 12:09	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 12:09	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 12:09	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 12:09	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 12:09	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/24/24 12:09*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/24/24 12:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/24 12:09*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/24/24 12:09*	*1*

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

Lab Sample ID: MB 680-860053/10
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/18/24 12:11	1
Benzene	<0.27		1.0	0.27	ug/L			10/18/24 12:11	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/18/24 12:11	1
Bromoform	<0.59		1.0	0.59	ug/L			10/18/24 12:11	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/18/24 12:11	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/18/24 12:11	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/18/24 12:11	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/18/24 12:11	1
Chloroform	<0.27		1.0	0.27	ug/L			10/18/24 12:11	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/18/24 12:11	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/18/24 12:11	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/18/24 12:11	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/18/24 12:11	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/18/24 12:11	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/18/24 12:11	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/18/24 12:11	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/18/24 12:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/18/24 12:11	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/18/24 12:11	1
Toluene	<0.25		1.0	0.25	ug/L			10/18/24 12:11	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/18/24 12:11	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/18/24 12:11	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/18/24 12:11	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/18/24 12:11	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/18/24 12:11	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/18/24 12:11	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/18/24 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/18/24 12:11*	*1*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*10/18/24 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/18/24 12:11*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*10/18/24 12:11*	*1*

Lab Sample ID: LCS 680-860053/6
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	202		ug/L		81	67 - 120
Benzene	50.0	42.6		ug/L		85	70 - 130
Bromochloromethane	50.0	46.2		ug/L		92	70 - 130
Bromoform	50.0	45.8		ug/L		92	69 - 129
Bromomethane	50.0	61.5		ug/L		123	28 - 192
Carbon tetrachloride	50.0	46.2		ug/L		92	70 - 130
Chlorobenzene	50.0	44.5		ug/L		89	70 - 130

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

Lab Sample ID: LCS 680-860053/6
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	75.7		ug/L		151	31 - 213		
Chloroform			50.0	50.1		ug/L		100	70 - 130		
Chloromethane			50.0	45.2		ug/L		90	59 - 127		
cis-1,2-Dichloroethene			50.0	45.3		ug/L		91	70 - 130		
cis-1,3-Dichloropropene			50.0	44.8		ug/L		90	70 - 130		
Dibromochloromethane			50.0	45.9		ug/L		92	70 - 130		
1,1-Dichloroethane			50.0	49.6		ug/L		99	70 - 130		
1,2-Dichloroethane			50.0	48.9		ug/L		98	70 - 130		
1,1-Dichloroethene			50.0	51.2		ug/L		102	70 - 130		
1,3-Dichloropropene, Total			100	89.0		ug/L		89	70 - 130		
Ethylbenzene			50.0	46.9		ug/L		94	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	186		ug/L		74	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	44.1		ug/L		88	70 - 130		
Tetrachloroethene			50.0	45.9		ug/L		92	70 - 130		
Toluene			50.0	43.5		ug/L		87	70 - 130		
trans-1,2-Dichloroethene			50.0	49.4		ug/L		99	70 - 130		
trans-1,3-Dichloropropene			50.0	44.1		ug/L		88	70 - 130		
1,1,1-Trichloroethane			50.0	51.4		ug/L		103	70 - 130		
1,1,2-Trichloroethane			50.0	41.6		ug/L		83	70 - 130		
Trichloroethene			50.0	42.8		ug/L		86	70 - 130		
Vinyl chloride			50.0	49.3		ug/L		99	66 - 129		
Xylenes, Total			100	94.5		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 680-860053/7
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	205		ug/L		82	67 - 120	1	30
Benzene			50.0	42.5		ug/L		85	70 - 130	0	30
Bromochloromethane			50.0	45.6		ug/L		91	70 - 130	1	30
Bromoform			50.0	47.1		ug/L		94	69 - 129	3	30
Bromomethane			50.0	59.8		ug/L		120	28 - 192	3	30
Carbon tetrachloride			50.0	44.8		ug/L		90	70 - 130	3	30
Chlorobenzene			50.0	44.6		ug/L		89	70 - 130	0	30
Chloroethane			50.0	67.9		ug/L		136	31 - 213	11	30
Chloroform			50.0	48.5		ug/L		97	70 - 130	3	30
Chloromethane			50.0	42.3		ug/L		85	59 - 127	7	30
cis-1,2-Dichloroethene			50.0	43.5		ug/L		87	70 - 130	4	30
cis-1,3-Dichloropropene			50.0	45.3		ug/L		91	70 - 130	1	20
Dibromochloromethane			50.0	48.3		ug/L		97	70 - 130	5	30
1,1-Dichloroethane			50.0	48.0		ug/L		96	70 - 130	3	30

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

Lab Sample ID: LCSD 680-860053/7
Matrix: Water
Analysis Batch: 860053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	48.9		ug/L		98	70 - 130	0	50
1,1-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	7	20
1,3-Dichloropropene, Total			100	89.3		ug/L		89	70 - 130	0	30
Ethylbenzene			50.0	46.4		ug/L		93	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	197		ug/L		79	68 - 120	5	30
1,1,2,2-Tetrachloroethane			50.0	46.7		ug/L		93	70 - 130	6	30
Tetrachloroethene			50.0	45.6		ug/L		91	70 - 130	1	30
Toluene			50.0	42.7		ug/L		85	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	46.4		ug/L		93	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	44.0		ug/L		88	70 - 130	0	30
1,1,1-Trichloroethane			50.0	49.6		ug/L		99	70 - 130	4	30
1,1,2-Trichloroethane			50.0	42.6		ug/L		85	70 - 130	2	30
Trichloroethene			50.0	42.1		ug/L		84	70 - 130	2	30
Vinyl chloride			50.0	48.0		ug/L		96	66 - 129	3	30
Xylenes, Total			100	93.7		ug/L		94	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 680-860775/10
Matrix: Water
Analysis Batch: 860775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 12:52	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 12:52	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 12:52	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 12:52	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 12:52	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 12:52	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 12:52	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 12:52	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 12:52	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 12:52	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/24 12:52	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 12:52	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 12:52	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 12:52	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 12:52	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 12:52	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 12:52	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 12:52	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 12:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 12:52	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 12:52	1

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

Lab Sample ID: MB 680-860775/10
Matrix: Water
Analysis Batch: 860775

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 12:52	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 12:52	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 12:52	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 12:52	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 12:52	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/23/24 12:52	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 12:52	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*10/23/24 12:52*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/23/24 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/23/24 12:52*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/24 12:52*	*1*

Lab Sample ID: LCS 680-860775/6
Matrix: Water
Analysis Batch: 860775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	241		ug/L		96	67 - 120
Benzene	50.0	52.7		ug/L		105	70 - 130
Bromochloromethane	50.0	48.7		ug/L		97	70 - 130
Bromoform	50.0	46.6		ug/L		93	69 - 129
Bromomethane	50.0	49.3		ug/L		99	28 - 192
Carbon tetrachloride	50.0	47.9		ug/L		96	70 - 130
Chlorobenzene	50.0	50.6		ug/L		101	70 - 130
Chloroethane	50.0	48.9		ug/L		98	31 - 213
Chloroform	50.0	50.9		ug/L		102	70 - 130
Chloromethane	50.0	50.0		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Dibromochloromethane	50.0	53.3		ug/L		107	70 - 130
1,1-Dichloroethane	50.0	51.9		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	54.1		ug/L		108	70 - 130
1,3-Dichloropropene, Total	100	101		ug/L		101	70 - 130
Ethylbenzene	50.0	52.7		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	250	258		ug/L		103	68 - 120
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/L		105	70 - 130
Tetrachloroethene	50.0	50.6		ug/L		101	70 - 130
Toluene	50.0	54.1		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	70 - 130
Trichloroethene	50.0	50.7		ug/L		101	70 - 130
Vinyl chloride	50.0	50.5		ug/L		101	66 - 129

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

Lab Sample ID: LCS 680-860775/6
Matrix: Water
Analysis Batch: 860775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	105		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 680-860775/7
Matrix: Water
Analysis Batch: 860775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	232		ug/L		93	67 - 120	4	30
Benzene			50.0	52.0		ug/L		104	70 - 130	1	30
Bromochloromethane			50.0	47.5		ug/L		95	70 - 130	2	30
Bromoform			50.0	47.3		ug/L		95	69 - 129	1	30
Bromomethane			50.0	49.9		ug/L		100	28 - 192	1	30
Carbon tetrachloride			50.0	50.5		ug/L		101	70 - 130	5	30
Chlorobenzene			50.0	50.7		ug/L		101	70 - 130	0	30
Chloroethane			50.0	49.4		ug/L		99	31 - 213	1	30
Chloroform			50.0	50.2		ug/L		100	70 - 130	1	30
Chloromethane			50.0	49.4		ug/L		99	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	49.0		ug/L		98	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	48.5		ug/L		97	70 - 130	2	20
Dibromochloromethane			50.0	50.7		ug/L		101	70 - 130	5	30
1,1-Dichloroethane			50.0	51.4		ug/L		103	70 - 130	1	30
1,2-Dichloroethane			50.0	50.1		ug/L		100	70 - 130	3	50
1,1-Dichloroethene			50.0	56.2		ug/L		112	70 - 130	4	20
1,3-Dichloropropene, Total			100	98.9		ug/L		99	70 - 130	2	30
Ethylbenzene			50.0	54.0		ug/L		108	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	248		ug/L		99	68 - 120	4	30
1,1,2,2-Tetrachloroethane			50.0	52.5		ug/L		105	70 - 130	0	30
Tetrachloroethene			50.0	52.4		ug/L		105	70 - 130	4	30
Toluene			50.0	53.6		ug/L		107	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	52.5		ug/L		105	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	50.4		ug/L		101	70 - 130	3	30
1,1,1-Trichloroethane			50.0	51.5		ug/L		103	70 - 130	3	30
1,1,2-Trichloroethane			50.0	51.9		ug/L		104	70 - 130	4	30
Trichloroethene			50.0	51.8		ug/L		104	70 - 130	2	30
Vinyl chloride			50.0	52.4		ug/L		105	66 - 129	4	30
Xylenes, Total			100	107		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 680-860783/9
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/23/24 12:53	1
Benzene	<0.27		1.0	0.27	ug/L			10/23/24 12:53	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/23/24 12:53	1
Bromoform	<0.59		1.0	0.59	ug/L			10/23/24 12:53	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/23/24 12:53	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/23/24 12:53	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/23/24 12:53	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/23/24 12:53	1
Chloroform	<0.27		1.0	0.27	ug/L			10/23/24 12:53	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/23/24 12:53	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/23/24 12:53	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/23/24 12:53	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/23/24 12:53	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/23/24 12:53	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/23/24 12:53	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/23/24 12:53	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/23/24 12:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/23/24 12:53	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/23/24 12:53	1
Toluene	<0.25		1.0	0.25	ug/L			10/23/24 12:53	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/23/24 12:53	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/23/24 12:53	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/23/24 12:53	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/23/24 12:53	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/23/24 12:53	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/23/24 12:53	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/23/24 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/23/24 12:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/23/24 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/23/24 12:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/23/24 12:53*	*1*

Lab Sample ID: LCS 680-860783/5
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	254		ug/L		102	67 - 120
Benzene	50.0	51.3		ug/L		103	70 - 130
Bromochloromethane	50.0	50.1		ug/L		100	70 - 130
Bromoform	50.0	46.4		ug/L		93	69 - 129
Bromomethane	50.0	45.4		ug/L		91	28 - 192
Carbon tetrachloride	50.0	50.2		ug/L		100	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130

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

Lab Sample ID: LCS 680-860783/5
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	50.7		ug/L		101	31 - 213		
Chloroform			50.0	49.6		ug/L		99	70 - 130		
Chloromethane			50.0	48.8		ug/L		98	59 - 127		
cis-1,2-Dichloroethene			50.0	51.2		ug/L		102	70 - 130		
cis-1,3-Dichloropropene			50.0	47.2		ug/L		94	70 - 130		
Dibromochloromethane			50.0	46.6		ug/L		93	70 - 130		
1,1-Dichloroethane			50.0	50.7		ug/L		101	70 - 130		
1,2-Dichloroethane			50.0	48.1		ug/L		96	70 - 130		
1,1-Dichloroethene			50.0	51.5		ug/L		103	70 - 130		
1,3-Dichloropropene, Total			100	94.9		ug/L		95	70 - 130		
Ethylbenzene			50.0	52.9		ug/L		106	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	239		ug/L		96	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	51.5		ug/L		103	70 - 130		
Tetrachloroethene			50.0	51.4		ug/L		103	70 - 130		
Toluene			50.0	51.5		ug/L		103	70 - 130		
trans-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 130		
trans-1,3-Dichloropropene			50.0	47.7		ug/L		95	70 - 130		
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	70 - 130		
1,1,2-Trichloroethane			50.0	48.0		ug/L		96	70 - 130		
Trichloroethene			50.0	48.0		ug/L		96	70 - 130		
Vinyl chloride			50.0	50.2		ug/L		100	66 - 129		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-860783/6
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	265		ug/L		106	67 - 120	4	30
Benzene			50.0	51.0		ug/L		102	70 - 130	1	30
Bromochloromethane			50.0	52.2		ug/L		104	70 - 130	4	30
Bromoform			50.0	45.5		ug/L		91	69 - 129	2	30
Bromomethane			50.0	46.9		ug/L		94	28 - 192	3	30
Carbon tetrachloride			50.0	51.0		ug/L		102	70 - 130	2	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	0	30
Chloroethane			50.0	52.2		ug/L		104	31 - 213	3	30
Chloroform			50.0	51.1		ug/L		102	70 - 130	3	30
Chloromethane			50.0	48.9		ug/L		98	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	52.4		ug/L		105	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	1	20
Dibromochloromethane			50.0	46.4		ug/L		93	70 - 130	0	30
1,1-Dichloroethane			50.0	52.1		ug/L		104	70 - 130	3	30

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

Lab Sample ID: LCSD 680-860783/6
Matrix: Water
Analysis Batch: 860783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	3	50
1,1-Dichloroethene			50.0	52.5		ug/L		105	70 - 130	2	20
1,3-Dichloropropene, Total			100	95.2		ug/L		95	70 - 130	0	30
Ethylbenzene			50.0	51.7		ug/L		103	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	235		ug/L		94	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	49.8		ug/L		100	70 - 130	3	30
Tetrachloroethene			50.0	50.1		ug/L		100	70 - 130	3	30
Toluene			50.0	51.4		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	47.5		ug/L		95	70 - 130	0	30
1,1,1-Trichloroethane			50.0	50.5		ug/L		101	70 - 130	2	30
1,1,2-Trichloroethane			50.0	48.1		ug/L		96	70 - 130	0	30
Trichloroethene			50.0	47.6		ug/L		95	70 - 130	1	30
Vinyl chloride			50.0	49.8		ug/L		100	66 - 129	1	30
Xylenes, Total			100	106		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-860954/8
Matrix: Water
Analysis Batch: 860954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:01	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:01	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:01	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:01	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:01	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:01	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:01	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:01	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:01	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:01	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:01	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:01	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:01	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:01	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:01	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:01	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:01	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:01	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:01	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:01	1

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

Lab Sample ID: MB 680-860954/8
Matrix: Water
Analysis Batch: 860954

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:01	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:01	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:01	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:01	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:01	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:01	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:01	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/24/24 11:01*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/24/24 11:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/24/24 11:01*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/24/24 11:01*	*1*

Lab Sample ID: LCS 680-860954/4
Matrix: Water
Analysis Batch: 860954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	201		ug/L		80	67 - 120
Benzene	50.0	45.1		ug/L		90	70 - 130
Bromochloromethane	50.0	40.4		ug/L		81	70 - 130
Bromoform	50.0	51.0		ug/L		102	69 - 129
Bromomethane	50.0	54.2		ug/L		108	28 - 192
Carbon tetrachloride	50.0	45.7		ug/L		91	70 - 130
Chlorobenzene	50.0	52.3		ug/L		105	70 - 130
Chloroethane	50.0	51.8		ug/L		104	31 - 213
Chloroform	50.0	42.5		ug/L		85	70 - 130
Chloromethane	50.0	34.1		ug/L		68	59 - 127
cis-1,2-Dichloroethene	50.0	43.8		ug/L		88	70 - 130
cis-1,3-Dichloropropene	50.0	44.7		ug/L		89	70 - 130
Dibromochloromethane	50.0	45.0		ug/L		90	70 - 130
1,1-Dichloroethane	50.0	42.4		ug/L		85	70 - 130
1,2-Dichloroethane	50.0	41.4		ug/L		83	70 - 130
1,1-Dichloroethene	50.0	44.6		ug/L		89	70 - 130
1,3-Dichloropropene, Total	100	90.0		ug/L		90	70 - 130
Ethylbenzene	50.0	52.5		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	250	196		ug/L		78	68 - 120
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130
Tetrachloroethene	50.0	51.2		ug/L		102	70 - 130
Toluene	50.0	45.4		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
trans-1,3-Dichloropropene	50.0	45.3		ug/L		91	70 - 130
1,1,1-Trichloroethane	50.0	44.7		ug/L		89	70 - 130
1,1,2-Trichloroethane	50.0	43.2		ug/L		86	70 - 130
Trichloroethene	50.0	47.7		ug/L		95	70 - 130
Vinyl chloride	50.0	43.1		ug/L		86	66 - 129

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

Lab Sample ID: LCS 680-860954/4
Matrix: Water
Analysis Batch: 860954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 680-860954/5
Matrix: Water
Analysis Batch: 860954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	204		ug/L		82	67 - 120	1	30
Benzene			50.0	44.9		ug/L		90	70 - 130	0	30
Bromochloromethane			50.0	40.1		ug/L		80	70 - 130	1	30
Bromoform			50.0	52.1		ug/L		104	69 - 129	2	30
Bromomethane			50.0	53.6		ug/L		107	28 - 192	1	30
Carbon tetrachloride			50.0	45.8		ug/L		92	70 - 130	0	30
Chlorobenzene			50.0	52.8		ug/L		106	70 - 130	1	30
Chloroethane			50.0	40.8		ug/L		82	31 - 213	24	30
Chloroform			50.0	42.6		ug/L		85	70 - 130	0	30
Chloromethane			50.0	33.9		ug/L		68	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	43.3		ug/L		87	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	44.1		ug/L		88	70 - 130	1	20
Dibromochloromethane			50.0	44.8		ug/L		90	70 - 130	1	30
1,1-Dichloroethane			50.0	41.5		ug/L		83	70 - 130	2	30
1,2-Dichloroethane			50.0	41.3		ug/L		83	70 - 130	0	50
1,1-Dichloroethene			50.0	44.3		ug/L		89	70 - 130	0	20
1,3-Dichloropropene, Total			100	89.2		ug/L		89	70 - 130	1	30
Ethylbenzene			50.0	52.8		ug/L		106	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	201		ug/L		80	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	50.4		ug/L		101	70 - 130	1	30
Tetrachloroethene			50.0	51.3		ug/L		103	70 - 130	0	30
Toluene			50.0	45.2		ug/L		90	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	45.1		ug/L		90	70 - 130	0	30
1,1,1-Trichloroethane			50.0	44.1		ug/L		88	70 - 130	1	30
1,1,2-Trichloroethane			50.0	43.6		ug/L		87	70 - 130	1	30
Trichloroethene			50.0	48.6		ug/L		97	70 - 130	2	30
Vinyl chloride			50.0	42.8		ug/L		86	66 - 129	1	30
Xylenes, Total			100	109		ug/L		109	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*
Toluene-d8 (Surr)	*92*		*70 - 130*

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

Lab Sample ID: 680-257064-1 MS
Matrix: Water
Analysis Batch: 860954

Client Sample ID: MW-187-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.7		250	207		ug/L		83	67 - 120
Benzene	<0.27		50.0	45.4		ug/L		91	70 - 130
Bromochloromethane	<0.34		50.0	39.4		ug/L		79	70 - 130
Bromoform	<0.59		50.0	57.7		ug/L		115	69 - 129
Bromomethane	<3.7	F1	50.0	122	F1	ug/L		244	28 - 192
Carbon tetrachloride	<0.30		50.0	48.9		ug/L		98	70 - 130
Chlorobenzene	<0.15		50.0	53.0		ug/L		106	70 - 130
Chloroethane	<4.6	F1	50.0	104		ug/L		209	31 - 213
Chloroform	<0.27		50.0	44.4		ug/L		89	70 - 130
Chloromethane	<0.54		50.0	33.7		ug/L		67	59 - 127
cis-1,2-Dichloroethene	3.2		50.0	48.1		ug/L		90	70 - 130
cis-1,3-Dichloropropene	<0.26		50.0	45.2		ug/L		90	70 - 130
Dibromochloromethane	<0.39		50.0	48.1		ug/L		96	70 - 130
1,1-Dichloroethane	0.39	J	50.0	42.2		ug/L		84	70 - 130
1,2-Dichloroethane	<0.25		50.0	43.9		ug/L		88	70 - 130
1,1-Dichloroethene	<0.33		50.0	43.6		ug/L		87	70 - 130
1,3-Dichloropropene, Total	<0.48		100	91.3		ug/L		91	70 - 130
Ethylbenzene	<0.20		50.0	52.4		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7		250	230		ug/L		92	68 - 120
1,1,2,2-Tetrachloroethane	<0.40		50.0	56.9		ug/L		114	70 - 130
Tetrachloroethene	<0.35		50.0	51.8		ug/L		104	70 - 130
Toluene	<0.25		50.0	45.5		ug/L		91	70 - 130
trans-1,2-Dichloroethene	<0.34		50.0	46.6		ug/L		93	70 - 130
trans-1,3-Dichloropropene	<0.23		50.0	46.1		ug/L		92	70 - 130
1,1,1-Trichloroethane	<0.21		50.0	47.5		ug/L		95	70 - 130
1,1,2-Trichloroethane	<0.32		50.0	45.2		ug/L		90	70 - 130
Trichloroethene	110		50.0	175		ug/L		122	70 - 130
Vinyl chloride	<0.40		50.0	45.0		ug/L		90	66 - 129
Xylenes, Total	<0.23		100	107		ug/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: 680-257064-1 MSD
Matrix: Water
Analysis Batch: 860954

Client Sample ID: MW-187-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<3.7		250	208		ug/L		83	67 - 120	0	30
Benzene	<0.27		50.0	45.3		ug/L		91	70 - 130	0	30
Bromochloromethane	<0.34		50.0	38.4		ug/L		77	70 - 130	3	30
Bromoform	<0.59		50.0	58.8		ug/L		118	69 - 129	2	30
Bromomethane	<3.7	F1	50.0	116	F1	ug/L		233	28 - 192	5	30
Carbon tetrachloride	<0.30		50.0	50.9		ug/L		102	70 - 130	4	30
Chlorobenzene	<0.15		50.0	53.0		ug/L		106	70 - 130	0	30

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

Lab Sample ID: 680-257064-1 MSD
Matrix: Water
Analysis Batch: 860954

Client Sample ID: MW-187-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane	<4.6	F1	50.0	108	F1	ug/L		216	31 - 213	3	30
Chloroform	<0.27		50.0	43.9		ug/L		88	70 - 130	1	30
Chloromethane	<0.54		50.0	33.3		ug/L		67	59 - 127	1	30
cis-1,2-Dichloroethene	3.2		50.0	47.8		ug/L		89	70 - 130	1	30
cis-1,3-Dichloropropene	<0.26		50.0	45.2		ug/L		90	70 - 130	0	20
Dibromochloromethane	<0.39		50.0	47.9		ug/L		96	70 - 130	0	30
1,1-Dichloroethane	0.39	J	50.0	42.0		ug/L		83	70 - 130	0	30
1,2-Dichloroethane	<0.25		50.0	43.4		ug/L		87	70 - 130	1	50
1,1-Dichloroethene	<0.33		50.0	44.8		ug/L		90	70 - 130	3	20
1,3-Dichloropropene, Total	<0.48		100	91.0		ug/L		91	70 - 130	0	30
Ethylbenzene	<0.20		50.0	53.1		ug/L		106	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	<2.7		250	229		ug/L		92	68 - 120	0	30
1,1,2,2-Tetrachloroethane	<0.40		50.0	57.2		ug/L		114	70 - 130	0	30
Tetrachloroethene	<0.35		50.0	54.4		ug/L		109	70 - 130	5	30
Toluene	<0.25		50.0	45.6		ug/L		91	70 - 130	0	30
trans-1,2-Dichloroethene	<0.34		50.0	47.1		ug/L		94	70 - 130	1	30
trans-1,3-Dichloropropene	<0.23		50.0	45.8		ug/L		92	70 - 130	1	30
1,1,1-Trichloroethane	<0.21		50.0	48.0		ug/L		96	70 - 130	1	30
1,1,2-Trichloroethane	<0.32		50.0	45.1		ug/L		90	70 - 130	0	30
Trichloroethene	110		50.0	177		ug/L		127	70 - 130	1	30
Vinyl chloride	<0.40		50.0	46.0		ug/L		92	66 - 129	2	30
Xylenes, Total	<0.23		100	109		ug/L		109	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 680-860959/9
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:22	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:22	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:22	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:22	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:22	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:22	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:22	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:22	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:22	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:22	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:22	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:22	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:22	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:22	1

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

Lab Sample ID: MB 680-860959/9
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:22	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:22	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:22	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:22	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:22	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:22	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:22	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:22	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:22	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:22	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:22	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:22	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:22	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*10/24/24 11:22*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 11:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 11:22*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/24/24 11:22*	*1*

Lab Sample ID: LCS 680-860959/5
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	222		ug/L		89	67 - 120
Benzene	50.0	51.2		ug/L		102	70 - 130
Bromochloromethane	50.0	48.4		ug/L		97	70 - 130
Bromoform	50.0	44.5		ug/L		89	69 - 129
Bromomethane	50.0	45.2		ug/L		90	28 - 192
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130
Chlorobenzene	50.0	50.6		ug/L		101	70 - 130
Chloroethane	50.0	47.9		ug/L		96	31 - 213
Chloroform	50.0	50.8		ug/L		102	70 - 130
Chloromethane	50.0	46.1		ug/L		92	59 - 127
cis-1,2-Dichloroethene	50.0	46.6		ug/L		93	70 - 130
cis-1,3-Dichloropropene	50.0	51.4		ug/L		103	70 - 130
Dibromochloromethane	50.0	51.1		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
1,3-Dichloropropene, Total	100	100		ug/L		100	70 - 130
Ethylbenzene	50.0	52.1		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	250	250		ug/L		100	68 - 120
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	50.1		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-860959/5
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			50.0	53.6		ug/L		107	70 - 130		
trans-1,2-Dichloroethene			50.0	51.0		ug/L		102	70 - 130		
trans-1,3-Dichloropropene			50.0	48.7		ug/L		97	70 - 130		
1,1,1-Trichloroethane			50.0	49.8		ug/L		100	70 - 130		
1,1,2-Trichloroethane			50.0	52.1		ug/L		104	70 - 130		
Trichloroethene			50.0	52.0		ug/L		104	70 - 130		
Vinyl chloride			50.0	48.2		ug/L		96	66 - 129		
Xylenes, Total			100	102		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-860959/6
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	219		ug/L		88	67 - 120	1	30
Benzene			50.0	51.0		ug/L		102	70 - 130	0	30
Bromochloromethane			50.0	46.5		ug/L		93	70 - 130	4	30
Bromoform			50.0	44.8		ug/L		90	69 - 129	1	30
Bromomethane			50.0	45.4		ug/L		91	28 - 192	0	30
Carbon tetrachloride			50.0	49.2		ug/L		98	70 - 130	1	30
Chlorobenzene			50.0	50.1		ug/L		100	70 - 130	1	30
Chloroethane			50.0	46.4		ug/L		93	31 - 213	3	30
Chloroform			50.0	49.5		ug/L		99	70 - 130	3	30
Chloromethane			50.0	45.5		ug/L		91	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	44.0		ug/L		88	70 - 130	6	30
cis-1,3-Dichloropropene			50.0	50.8		ug/L		102	70 - 130	1	20
Dibromochloromethane			50.0	50.4		ug/L		101	70 - 130	1	30
1,1-Dichloroethane			50.0	50.5		ug/L		101	70 - 130	0	30
1,2-Dichloroethane			50.0	49.1		ug/L		98	70 - 130	2	50
1,1-Dichloroethene			50.0	51.8		ug/L		104	70 - 130	3	20
1,3-Dichloropropene, Total			100	99.4		ug/L		99	70 - 130	1	30
Ethylbenzene			50.0	52.5		ug/L		105	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	249		ug/L		100	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	48.8		ug/L		98	70 - 130	0	30
Tetrachloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
Toluene			50.0	53.5		ug/L		107	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.2		ug/L		102	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	48.7		ug/L		97	70 - 130	0	30
1,1,1-Trichloroethane			50.0	49.7		ug/L		99	70 - 130	0	30
1,1,2-Trichloroethane			50.0	51.9		ug/L		104	70 - 130	0	30
Trichloroethene			50.0	52.1		ug/L		104	70 - 130	0	30
Vinyl chloride			50.0	48.0		ug/L		96	66 - 129	0	30

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

Lab Sample ID: LCSD 680-860959/6
Matrix: Water
Analysis Batch: 860959

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	101		ug/L		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-860967/9
Matrix: Water
Analysis Batch: 860967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:47	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:47	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:47	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:47	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:47	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:47	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:47	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:47	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:47	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:47	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:47	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:47	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:47	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:47	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:47	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:47	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:47	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:47	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:47	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:47	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:47	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:47	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:47	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:47	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:47	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/24/24 11:47*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/24/24 11:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/24 11:47*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 11:47*	*1*

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

Lab Sample ID: LCS 680-860967/5
Matrix: Water
Analysis Batch: 860967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			250	238		ug/L		95	67 - 120		
Benzene			50.0	50.3		ug/L		101	70 - 130		
Bromochloromethane			50.0	51.5		ug/L		103	70 - 130		
Bromoform			50.0	42.6		ug/L		85	69 - 129		
Bromomethane			50.0	47.0		ug/L		94	28 - 192		
Carbon tetrachloride			50.0	51.5		ug/L		103	70 - 130		
Chlorobenzene			50.0	49.8		ug/L		100	70 - 130		
Chloroethane			50.0	63.8		ug/L		128	31 - 213		
Chloroform			50.0	51.1		ug/L		102	70 - 130		
Chloromethane			50.0	46.6		ug/L		93	59 - 127		
cis-1,2-Dichloroethene			50.0	50.9		ug/L		102	70 - 130		
cis-1,3-Dichloropropene			50.0	49.7		ug/L		99	70 - 130		
Dibromochloromethane			50.0	43.7		ug/L		87	70 - 130		
1,1-Dichloroethane			50.0	50.7		ug/L		101	70 - 130		
1,2-Dichloroethane			50.0	48.6		ug/L		97	70 - 130		
1,1-Dichloroethene			50.0	50.5		ug/L		101	70 - 130		
1,3-Dichloropropene, Total			100	93.9		ug/L		94	70 - 130		
Ethylbenzene			50.0	52.0		ug/L		104	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	215		ug/L		86	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	46.7		ug/L		93	70 - 130		
Tetrachloroethene			50.0	50.9		ug/L		102	70 - 130		
Toluene			50.0	51.4		ug/L		103	70 - 130		
trans-1,2-Dichloroethene			50.0	51.1		ug/L		102	70 - 130		
trans-1,3-Dichloropropene			50.0	44.2		ug/L		88	70 - 130		
1,1,1-Trichloroethane			50.0	49.2		ug/L		98	70 - 130		
1,1,2-Trichloroethane			50.0	45.4		ug/L		91	70 - 130		
Trichloroethene			50.0	46.6		ug/L		93	70 - 130		
Vinyl chloride			50.0	48.2		ug/L		96	66 - 129		
Xylenes, Total			100	106		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-860967/6
Matrix: Water
Analysis Batch: 860967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	233		ug/L		93	67 - 120	2	30
Benzene			50.0	50.5		ug/L		101	70 - 130	0	30
Bromochloromethane			50.0	52.3		ug/L		105	70 - 130	2	30
Bromoform			50.0	42.8		ug/L		86	69 - 129	0	30
Bromomethane			50.0	48.3		ug/L		97	28 - 192	3	30
Carbon tetrachloride			50.0	51.2		ug/L		102	70 - 130	1	30
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130	2	30

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

Lab Sample ID: LCSD 680-860967/6
Matrix: Water
Analysis Batch: 860967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane			50.0	63.9		ug/L		128	31 - 213	0	30
Chloroform			50.0	51.8		ug/L		104	70 - 130	1	30
Chloromethane			50.0	46.8		ug/L		94	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	49.5		ug/L		99	70 - 130	0	20
Dibromochloromethane			50.0	44.9		ug/L		90	70 - 130	3	30
1,1-Dichloroethane			50.0	51.7		ug/L		103	70 - 130	2	30
1,2-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	0	50
1,1-Dichloroethene			50.0	51.1		ug/L		102	70 - 130	1	20
1,3-Dichloropropene, Total			100	93.8		ug/L		94	70 - 130	0	30
Ethylbenzene			50.0	53.0		ug/L		106	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	214		ug/L		86	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	47.1		ug/L		94	70 - 130	1	30
Tetrachloroethene			50.0	49.8		ug/L		100	70 - 130	2	30
Toluene			50.0	51.6		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.1		ug/L		102	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	44.2		ug/L		88	70 - 130	0	30
1,1,1-Trichloroethane			50.0	50.1		ug/L		100	70 - 130	2	30
1,1,2-Trichloroethane			50.0	45.6		ug/L		91	70 - 130	0	30
Trichloroethene			50.0	47.0		ug/L		94	70 - 130	1	30
Vinyl chloride			50.0	47.8		ug/L		96	66 - 129	1	30
Xylenes, Total			100	108		ug/L		108	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 680-257064-26 MS
Matrix: Water
Analysis Batch: 860967

Client Sample ID: MW-68-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<3.7		250	248		ug/L		99	67 - 120
Benzene	<0.27		50.0	51.7		ug/L		103	70 - 130
Bromochloromethane	<0.34		50.0	53.1		ug/L		106	70 - 130
Bromoform	<0.59		50.0	48.3		ug/L		97	69 - 129
Bromomethane	<3.7		50.0	114	F1	ug/L		228	28 - 192
Carbon tetrachloride	<0.30		50.0	52.9		ug/L		106	70 - 130
Chlorobenzene	<0.15		50.0	51.9		ug/L		104	70 - 130
Chloroethane	<4.6		50.0	156	F1	ug/L		312	31 - 213
Chloroform	<0.27		50.0	50.3		ug/L		101	70 - 130
Chloromethane	<0.54		50.0	45.4		ug/L		91	59 - 127
cis-1,2-Dichloroethene	<0.25		50.0	52.2		ug/L		104	70 - 130
cis-1,3-Dichloropropene	<0.26		50.0	50.6		ug/L		101	70 - 130
Dibromochloromethane	<0.39		50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethane	<0.33		50.0	51.7		ug/L		103	70 - 130

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

Lab Sample ID: 680-257064-26 MS
Matrix: Water
Analysis Batch: 860967

Client Sample ID: MW-68-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	<0.25		50.0	47.9		ug/L		96	70 - 130
1,1-Dichloroethene	<0.33		50.0	53.4		ug/L		107	70 - 130
1,3-Dichloropropene, Total	<0.48		100	97.1		ug/L		97	70 - 130
Ethylbenzene	<0.20		50.0	53.7		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7		250	239		ug/L		96	68 - 120
1,1,2,2-Tetrachloroethane	<0.40		50.0	52.0		ug/L		104	70 - 130
Tetrachloroethene	<0.35		50.0	51.7		ug/L		103	70 - 130
Toluene	<0.25		50.0	52.2		ug/L		104	70 - 130
trans-1,2-Dichloroethene	<0.34		50.0	52.2		ug/L		104	70 - 130
trans-1,3-Dichloropropene	<0.23		50.0	46.5		ug/L		93	70 - 130
1,1,1-Trichloroethane	<0.21		50.0	51.6		ug/L		103	70 - 130
1,1,2-Trichloroethane	<0.32		50.0	47.5		ug/L		95	70 - 130
Trichloroethene	<0.20		50.0	47.8		ug/L		96	70 - 130
Vinyl chloride	<0.40		50.0	45.9		ug/L		92	66 - 129
Xylenes, Total	<0.23		100	107		ug/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 680-257064-26 MSD
Matrix: Water
Analysis Batch: 860967

Client Sample ID: MW-68-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<3.7		250	259		ug/L		104	67 - 120	4	30
Benzene	<0.27		50.0	52.3		ug/L		105	70 - 130	1	30
Bromochloromethane	<0.34		50.0	54.7		ug/L		109	70 - 130	3	30
Bromoform	<0.59		50.0	49.1		ug/L		98	69 - 129	2	30
Bromomethane	<3.7		50.0	136	F1	ug/L		271	28 - 192	17	30
Carbon tetrachloride	<0.30		50.0	53.8		ug/L		108	70 - 130	2	30
Chlorobenzene	<0.15		50.0	51.5		ug/L		103	70 - 130	1	30
Chloroethane	<4.6		50.0	165	F1	ug/L		331	31 - 213	6	30
Chloroform	<0.27		50.0	51.8		ug/L		104	70 - 130	3	30
Chloromethane	<0.54		50.0	44.3		ug/L		89	59 - 127	2	30
cis-1,2-Dichloroethene	<0.25		50.0	52.9		ug/L		106	70 - 130	1	30
cis-1,3-Dichloropropene	<0.26		50.0	52.5		ug/L		105	70 - 130	4	20
Dibromochloromethane	<0.39		50.0	49.1		ug/L		98	70 - 130	5	30
1,1-Dichloroethane	<0.33		50.0	51.7		ug/L		103	70 - 130	0	30
1,2-Dichloroethane	<0.25		50.0	49.7		ug/L		99	70 - 130	4	50
1,1-Dichloroethene	<0.33		50.0	53.0		ug/L		106	70 - 130	1	20
1,3-Dichloropropene, Total	<0.48		100	100		ug/L		100	70 - 130	3	30
Ethylbenzene	<0.20		50.0	53.2		ug/L		106	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	<2.7		250	256		ug/L		103	68 - 120	7	30
1,1,2,2-Tetrachloroethane	<0.40		50.0	53.8		ug/L		108	70 - 130	3	30
Tetrachloroethene	<0.35		50.0	53.3		ug/L		107	70 - 130	3	30

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

Lab Sample ID: 680-257064-26 MSD
Matrix: Water
Analysis Batch: 860967

Client Sample ID: MW-68-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	<0.25		50.0	53.7		ug/L		107	70 - 130	3	30
trans-1,2-Dichloroethene	<0.34		50.0	52.7		ug/L		105	70 - 130	1	30
trans-1,3-Dichloropropene	<0.23		50.0	47.6		ug/L		95	70 - 130	2	30
1,1,1-Trichloroethane	<0.21		50.0	51.7		ug/L		103	70 - 130	0	30
1,1,2-Trichloroethane	<0.32		50.0	48.9		ug/L		98	70 - 130	3	30
Trichloroethene	<0.20		50.0	48.4		ug/L		97	70 - 130	1	30
Vinyl chloride	<0.40		50.0	44.9		ug/L		90	66 - 129	2	30
Xylenes, Total	<0.23		100	106		ug/L		106	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LB 680-860801/1-A
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<74		200	74	ug/L			10/24/24 18:13	20
Benzene	<5.4		20	5.4	ug/L			10/24/24 18:13	20
Bromochloromethane	<6.8		20	6.8	ug/L			10/24/24 18:13	20
Bromoform	<12		20	12	ug/L			10/24/24 18:13	20
Bromomethane	<74		100	74	ug/L			10/24/24 18:13	20
Carbon tetrachloride	<6.0		20	6.0	ug/L			10/24/24 18:13	20
Chlorobenzene	<3.0		20	3.0	ug/L			10/24/24 18:13	20
Chloroethane	<92		100	92	ug/L			10/24/24 18:13	20
Chloroform	<5.4		20	5.4	ug/L			10/24/24 18:13	20
Chloromethane	<11		20	11	ug/L			10/24/24 18:13	20
cis-1,2-Dichloroethene	<5.0		20	5.0	ug/L			10/24/24 18:13	20
cis-1,3-Dichloropropene	<5.2		20	5.2	ug/L			10/24/24 18:13	20
Dibromochloromethane	<7.8		20	7.8	ug/L			10/24/24 18:13	20
1,1-Dichloroethane	<6.6		20	6.6	ug/L			10/24/24 18:13	20
1,2-Dichloroethane	<5.0		20	5.0	ug/L			10/24/24 18:13	20
1,1-Dichloroethene	<6.6		20	6.6	ug/L			10/24/24 18:13	20
1,3-Dichloropropene, Total	<9.6		40	9.6	ug/L			10/24/24 18:13	20
Ethylbenzene	<4.0		20	4.0	ug/L			10/24/24 18:13	20
4-Methyl-2-pentanone (MIBK)	<54		200	54	ug/L			10/24/24 18:13	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			10/24/24 18:13	20
Tetrachloroethene	<7.0		20	7.0	ug/L			10/24/24 18:13	20
Toluene	<5.0		20	5.0	ug/L			10/24/24 18:13	20
trans-1,2-Dichloroethene	<6.8		20	6.8	ug/L			10/24/24 18:13	20
trans-1,3-Dichloropropene	<4.6		20	4.6	ug/L			10/24/24 18:13	20
1,1,1-Trichloroethane	<4.2		20	4.2	ug/L			10/24/24 18:13	20
1,1,2-Trichloroethane	<6.4		20	6.4	ug/L			10/24/24 18:13	20
Trichloroethene	13.3	J	20	4.0	ug/L			10/24/24 18:13	20
Vinyl chloride	<8.0		20	8.0	ug/L			10/24/24 18:13	20

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

Lab Sample ID: LB 680-860801/1-A
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<4.6		20	4.6	ug/L			10/24/24 18:13	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/24/24 18:13*	*20*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 18:13*	*20*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/24/24 18:13*	*20*
Toluene-d8 (Surr)	*129*		*70 - 130*		*10/24/24 18:13*	*20*

Lab Sample ID: MB 680-860971/9
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:55	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:55	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:55	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:55	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:55	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:55	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:55	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:55	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:55	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:55	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:55	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:55	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:55	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:55	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:55	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:55	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:55	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:55	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:55	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:55	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:55	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:55	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:55	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:55	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:55	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:55	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:55	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/24 11:55*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/24/24 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/24/24 11:55*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/24/24 11:55*	*1*

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

Lab Sample ID: LCS 680-860971/4
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	225		ug/L		90	67 - 120
Benzene	50.0	48.4		ug/L		97	70 - 130
Bromochloromethane	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	42.3		ug/L		85	69 - 129
Bromomethane	50.0	41.7		ug/L		83	28 - 192
Carbon tetrachloride	50.0	42.3		ug/L		85	70 - 130
Chlorobenzene	50.0	47.9		ug/L		96	70 - 130
Chloroethane	50.0	52.2		ug/L		104	31 - 213
Chloroform	50.0	50.3		ug/L		101	70 - 130
Chloromethane	50.0	36.6		ug/L		73	59 - 127
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	70 - 130
Dibromochloromethane	50.0	44.4		ug/L		89	70 - 130
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	48.5		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	45.0		ug/L		90	70 - 130
1,3-Dichloropropene, Total	100	101		ug/L		101	70 - 130
Ethylbenzene	50.0	51.5		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	68 - 120
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
Tetrachloroethene	50.0	52.7		ug/L		105	70 - 130
Toluene	50.0	51.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130
1,1,1-Trichloroethane	50.0	44.3		ug/L		89	70 - 130
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	70 - 130
Trichloroethene	50.0	53.6		ug/L		107	70 - 130
Vinyl chloride	50.0	50.1		ug/L		100	66 - 129
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-860971/6
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	250	208		ug/L		83	67 - 120	8	30
Benzene	50.0	50.0		ug/L		100	70 - 130	3	30
Bromochloromethane	50.0	51.6		ug/L		103	70 - 130	4	30
Bromoform	50.0	42.1		ug/L		84	69 - 129	0	30
Bromomethane	50.0	42.3		ug/L		85	28 - 192	1	30
Carbon tetrachloride	50.0	44.3		ug/L		89	70 - 130	5	30
Chlorobenzene	50.0	49.2		ug/L		98	70 - 130	3	30

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

Lab Sample ID: LCSD 680-860971/6
Matrix: Water
Analysis Batch: 860971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane			50.0	46.4		ug/L		93	31 - 213	12	30
Chloroform			50.0	49.4		ug/L		99	70 - 130	2	30
Chloromethane			50.0	43.0		ug/L		86	59 - 127	16	30
cis-1,2-Dichloroethene			50.0	50.3		ug/L		101	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	47.7		ug/L		95	70 - 130	11	20
Dibromochloromethane			50.0	39.2		ug/L		78	70 - 130	12	30
1,1-Dichloroethane			50.0	49.7		ug/L		99	70 - 130	1	30
1,2-Dichloroethane			50.0	50.3		ug/L		101	70 - 130	4	50
1,1-Dichloroethene			50.0	47.0		ug/L		94	70 - 130	4	20
1,3-Dichloropropene, Total			100	93.1		ug/L		93	70 - 130	8	30
Ethylbenzene			50.0	53.1		ug/L		106	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)			250	246		ug/L		98	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	48.5		ug/L		97	70 - 130	5	30
Tetrachloroethene			50.0	48.2		ug/L		96	70 - 130	9	30
Toluene			50.0	50.3		ug/L		101	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	45.4		ug/L		91	70 - 130	4	30
1,1,1-Trichloroethane			50.0	46.2		ug/L		92	70 - 130	4	30
1,1,2-Trichloroethane			50.0	47.5		ug/L		95	70 - 130	5	30
Trichloroethene			50.0	53.6		ug/L		107	70 - 130	0	30
Vinyl chloride			50.0	62.1		ug/L		124	66 - 129	21	30
Xylenes, Total			100	99.6		ug/L		100	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: MB 680-860975/8
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 11:26	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 11:26	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 11:26	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 11:26	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 11:26	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 11:26	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 11:26	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 11:26	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 11:26	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 11:26	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 11:26	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 11:26	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 11:26	1

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

Lab Sample ID: MB 680-860975/8
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 11:26	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 11:26	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 11:26	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 11:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 11:26	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 11:26	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 11:26	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 11:26	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 11:26	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 11:26	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 11:26	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 11:26	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 11:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 11:26*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/24/24 11:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/24/24 11:26*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/24/24 11:26*	*1*

Lab Sample ID: LCS 680-860975/4
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	226		ug/L		90	67 - 120
Benzene	50.0	45.0		ug/L		90	70 - 130
Bromochloromethane	50.0	46.8		ug/L		94	70 - 130
Bromoform	50.0	47.1		ug/L		94	69 - 129
Bromomethane	50.0	50.7		ug/L		101	28 - 192
Carbon tetrachloride	50.0	41.1		ug/L		82	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	45.5		ug/L		91	31 - 213
Chloroform	50.0	45.2		ug/L		90	70 - 130
Chloromethane	50.0	36.4		ug/L		73	59 - 127
cis-1,2-Dichloroethene	50.0	43.3		ug/L		87	70 - 130
cis-1,3-Dichloropropene	50.0	45.9		ug/L		92	70 - 130
Dibromochloromethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	43.1		ug/L		86	70 - 130
1,2-Dichloroethane	50.0	45.7		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	42.1		ug/L		84	70 - 130
1,3-Dichloropropene, Total	100	91.7		ug/L		92	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	250	239		ug/L		96	68 - 120
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130
Tetrachloroethene	50.0	43.8		ug/L		88	70 - 130

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

Lab Sample ID: LCS 680-860975/4
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			50.0	46.0		ug/L		92	70 - 130		
trans-1,2-Dichloroethene			50.0	44.2		ug/L		88	70 - 130		
trans-1,3-Dichloropropene			50.0	45.8		ug/L		92	70 - 130		
1,1,1-Trichloroethane			50.0	44.6		ug/L		89	70 - 130		
1,1,2-Trichloroethane			50.0	45.3		ug/L		91	70 - 130		
Trichloroethene			50.0	42.8		ug/L		86	70 - 130		
Vinyl chloride			50.0	43.2		ug/L		86	66 - 129		
Xylenes, Total			100	106		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 680-860975/5
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	227		ug/L		91	67 - 120	0	30
Benzene			50.0	45.4		ug/L		91	70 - 130	1	30
Bromochloromethane			50.0	48.6		ug/L		97	70 - 130	4	30
Bromoform			50.0	47.2		ug/L		94	69 - 129	0	30
Bromomethane			50.0	49.5		ug/L		99	28 - 192	2	30
Carbon tetrachloride			50.0	40.8		ug/L		82	70 - 130	1	30
Chlorobenzene			50.0	49.8		ug/L		100	70 - 130	2	30
Chloroethane			50.0	44.7		ug/L		89	31 - 213	2	30
Chloroform			50.0	46.8		ug/L		94	70 - 130	3	30
Chloromethane			50.0	37.0		ug/L		74	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	44.5		ug/L		89	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	47.8		ug/L		96	70 - 130	4	20
Dibromochloromethane			50.0	48.9		ug/L		98	70 - 130	4	30
1,1-Dichloroethane			50.0	43.4		ug/L		87	70 - 130	1	30
1,2-Dichloroethane			50.0	46.7		ug/L		93	70 - 130	2	50
1,1-Dichloroethene			50.0	44.0		ug/L		88	70 - 130	4	20
1,3-Dichloropropene, Total			100	95.5		ug/L		95	70 - 130	4	30
Ethylbenzene			50.0	52.3		ug/L		105	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	244		ug/L		98	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	57.0		ug/L		114	70 - 130	5	30
Tetrachloroethene			50.0	44.7		ug/L		89	70 - 130	2	30
Toluene			50.0	46.5		ug/L		93	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	44.6		ug/L		89	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	4	30
1,1,1-Trichloroethane			50.0	45.4		ug/L		91	70 - 130	2	30
1,1,2-Trichloroethane			50.0	45.4		ug/L		91	70 - 130	0	30
Trichloroethene			50.0	43.9		ug/L		88	70 - 130	3	30
Vinyl chloride			50.0	43.2		ug/L		86	66 - 129	0	30

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

Lab Sample ID: LCSD 680-860975/5
Matrix: Water
Analysis Batch: 860975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	106		ug/L		106	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-564423/1-A
Matrix: Water
Analysis Batch: 564382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 17:42	1
Ethane	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 17:42	1
Ethylene	<1.0		5.0	1.0	ug/L		10/17/24 10:24	10/17/24 17:42	1
Methane	<3.0		5.0	3.0	ug/L		10/17/24 10:24	10/17/24 17:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*107*		*43 - 133*	*10/17/24 10:24*	*10/17/24 17:42*	*1*

Lab Sample ID: LCS 410-564423/2-A
Matrix: Water
Analysis Batch: 564382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene			52.1	62.9		ug/L		121	61 - 148
Ethane			61.7	65.5		ug/L		106	85 - 115
Ethylene			58.3	63.1		ug/L		108	83 - 115
Methane			59.8	64.4		ug/L		108	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*105*		*43 - 133*

Lab Sample ID: LCSD 410-564423/3-A
Matrix: Water
Analysis Batch: 564382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564423

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene			52.1	57.1		ug/L		110	61 - 148	10	20
Ethane			61.7	66.0		ug/L		107	85 - 115	1	20
Ethylene			58.3	63.6		ug/L		109	83 - 115	1	20
Methane			59.8	64.9		ug/L		109	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*105*		*43 - 133*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-565105/1-A
Matrix: Water
Analysis Batch: 564927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 11:06	10/18/24 11:08	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 11:06	10/18/24 11:08	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 11:06	10/18/24 11:08	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 11:06	10/18/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*102*		*43 - 133*	*10/18/24 11:06*	*10/18/24 11:08*	*1*

Lab Sample ID: LCS 410-565105/2-A
Matrix: Water
Analysis Batch: 564927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	55.3		ug/L		106	61 - 148
Ethane	61.7	62.8		ug/L		102	85 - 115
Ethylene	58.3	60.4		ug/L		104	83 - 115
Methane	59.8	63.7		ug/L		107	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*99*		*43 - 133*

Lab Sample ID: LCSD 410-565105/3-A
Matrix: Water
Analysis Batch: 564927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 565105

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene	52.1	55.3		ug/L		106	61 - 148	0	20
Ethane	61.7	64.0		ug/L		104	85 - 115	2	20
Ethylene	58.3	61.6		ug/L		106	83 - 115	2	20
Methane	59.8	64.9		ug/L		109	85 - 115	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*102*		*43 - 133*

Lab Sample ID: MB 400-688575/3
Matrix: Water
Analysis Batch: 688575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/21/24 09:27	1
Ethane	<0.75		1.0	0.75	ug/L			10/21/24 09:27	1
Ethylene	<0.55		1.0	0.55	ug/L			10/21/24 09:27	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 400-688575/4
Matrix: Water
Analysis Batch: 688575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			389	429		ug/L		110	82 - 117		
Ethane			736	789		ug/L		107	85 - 116		
Ethylene			687	713		ug/L		104	83 - 121		

Lab Sample ID: LCSD 400-688575/5
Matrix: Water
Analysis Batch: 688575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane			389	428		ug/L		110	82 - 117	0	20
Ethane			736	788		ug/L		107	85 - 116	0	20
Ethylene			687	715		ug/L		104	83 - 121	0	20

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-860251/2
Matrix: Water
Analysis Batch: 860251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/19/24 11:37	1
Sulfate	<0.40		1.0	0.40	mg/L			10/19/24 11:37	1

Lab Sample ID: LCS 680-860251/3
Matrix: Water
Analysis Batch: 860251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.92		mg/L		99	90 - 110		
Sulfate			10.0	9.94		mg/L		99	90 - 110		

Lab Sample ID: LCSD 680-860251/4
Matrix: Water
Analysis Batch: 860251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.96		mg/L		100	90 - 110	0	15
Sulfate			10.0	9.99		mg/L		100	90 - 110	0	15

Lab Sample ID: MB 680-860639/2
Matrix: Water
Analysis Batch: 860639

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/22/24 11:37	1
Sulfate	<0.40		1.0	0.40	mg/L			10/22/24 11:37	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-860639/3
Matrix: Water
Analysis Batch: 860639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.87		mg/L		99	90 - 110		
Sulfate			10.0	9.90		mg/L		99	90 - 110		

Lab Sample ID: LCSD 680-860639/4
Matrix: Water
Analysis Batch: 860639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.90		mg/L		99	90 - 110	0	15
Sulfate			10.0	9.96		mg/L		100	90 - 110	1	15

Lab Sample ID: 680-257064-10 MS
Matrix: Water
Analysis Batch: 860639

Client Sample ID: TMW-26-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	170	F1	100	240	E F1	mg/L		66	80 - 120		
Sulfate	42		100	141		mg/L		98	80 - 120		

Lab Sample ID: 680-257064-10 MSD
Matrix: Water
Analysis Batch: 860639

Client Sample ID: TMW-26-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	170	F1	100	241	E F1	mg/L		67	80 - 120	0	15
Sulfate	42		100	142		mg/L		100	80 - 120	1	15

Lab Sample ID: 680-257064-41 MS
Matrix: Water
Analysis Batch: 860639

Client Sample ID: IW-73-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	130		100	236	E	mg/L		105	80 - 120		
Sulfate	11		100	112		mg/L		102	80 - 120		

Lab Sample ID: 680-257064-41 MSD
Matrix: Water
Analysis Batch: 860639

Client Sample ID: IW-73-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130		100	235	E	mg/L		104	80 - 120	0	15
Sulfate	11		100	112		mg/L		101	80 - 120	1	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-116637/1
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Lab Sample ID: LCS 670-116637/3
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	22.3		mg/L		112	60 - 140
Butyric acid	20.0	17.0		mg/L		85	60 - 140
Formic acid	20.0	22.9		mg/L		115	60 - 140
Hexanoic acid	20.0	15.4		mg/L		77	60 - 140
Pentanoic acid	20.0	18.2		mg/L		91	60 - 140
Propionic acid	20.0	16.4		mg/L		82	60 - 140
Pyruvic Acid	20.0	23.8		mg/L		119	60 - 140

Lab Sample ID: LCSD 670-116637/4
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid	20.0	23.2		mg/L		116	60 - 140	4	25
Butyric acid	20.0	18.6		mg/L		93	60 - 140	9	25
Formic acid	20.0	22.5		mg/L		113	60 - 140	2	25
Hexanoic acid	20.0	15.2		mg/L		76	60 - 140	1	25
Pentanoic acid	20.0	22.8		mg/L		114	60 - 140	22	25
Propionic acid	20.0	17.2		mg/L		86	60 - 140	5	25
Pyruvic Acid	20.0	24.8		mg/L		124	60 - 140	4	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-859404/1-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 16:38	1

Lab Sample ID: LCS 680-859404/2-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.11		mg/L		102	80 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-859406/1-A
Matrix: Water
Analysis Batch: 860153

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:00	1

Lab Sample ID: LCS 680-859406/2-A
Matrix: Water
Analysis Batch: 860153

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.15		mg/L		103	80 - 120

Lab Sample ID: 680-257064-29 MS
Matrix: Water
Analysis Batch: 860153

Client Sample ID: RW-69-202410
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.40		5.00	5.41		mg/L		100	75 - 125

Lab Sample ID: 680-257064-29 MSD
Matrix: Water
Analysis Batch: 860153

Client Sample ID: RW-69-202410
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.40		5.00	5.45		mg/L		101	75 - 125	1	20

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-859176/12
Matrix: Water
Analysis Batch: 859176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.010		0.10	0.010	mg/L			10/11/24 10:46	1

Lab Sample ID: LCS 680-859176/13
Matrix: Water
Analysis Batch: 859176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.500	0.502		mg/L		100	90 - 110

Lab Sample ID: 680-257064-4 MS
Matrix: Water
Analysis Batch: 859176

Client Sample ID: TMW-32-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.054	J F1	0.500	0.592		mg/L		107	90 - 110

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 680-257064-4 MSD
Matrix: Water
Analysis Batch: 859176

Client Sample ID: TMW-32-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.054	J F1	0.500	0.611	F1	mg/L		111	90 - 110	3	10

Lab Sample ID: 680-257064-8 MS
Matrix: Water
Analysis Batch: 859176

Client Sample ID: MW-61R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.081	J F1	0.500	0.631		mg/L		110	90 - 110

Lab Sample ID: 680-257064-8 MSD
Matrix: Water
Analysis Batch: 859176

Client Sample ID: MW-61R-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.081	J F1	0.500	0.673	F1	mg/L		118	90 - 110	7	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-859968/15
Matrix: Water
Analysis Batch: 859968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/17/24 11:48	1

Lab Sample ID: LCS 680-859968/14
Matrix: Water
Analysis Batch: 859968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: 680-257064-4 MS
Matrix: Water
Analysis Batch: 859968

Client Sample ID: TMW-32-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.063	J F1 F2	1.00	0.811	F1	mg/L		75	90 - 110

Lab Sample ID: 680-257064-4 MSD
Matrix: Water
Analysis Batch: 859968

Client Sample ID: TMW-32-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.063	J F1 F2	1.00	0.707	F1 F2	mg/L		64	90 - 110	14	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 680-860209/17
Matrix: Water
Analysis Batch: 860209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/18/24 13:28	1

Lab Sample ID: LCS 680-860209/18
Matrix: Water
Analysis Batch: 860209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.09		mg/L		109	90 - 110

Lab Sample ID: 680-257064-11 MS
Matrix: Water
Analysis Batch: 860209

Client Sample ID: MW-194-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.15	F1 F2	1.00	0.628	F1	mg/L		48	90 - 110

Lab Sample ID: 680-257064-11 MSD
Matrix: Water
Analysis Batch: 860209

Client Sample ID: MW-194-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.15	F1 F2	1.00	0.763	F1 F2	mg/L		62	90 - 110	19	10

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-859802/1
Matrix: Water
Analysis Batch: 859802

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			10/15/24 23:02	1

Lab Sample ID: LCS 680-859802/2
Matrix: Water
Analysis Batch: 859802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.1		mg/L		95	80 - 120

Lab Sample ID: LCSD 680-859802/3
Matrix: Water
Analysis Batch: 859802

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.3		mg/L		96	80 - 120	1	25

Method: 5310 B-2011 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 680-859179/1-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.50		1.0	0.50	mg/L			10/12/24 21:43	1

Lab Sample ID: LCS 680-859179/2-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	18.5		mg/L		92	80 - 120

Lab Sample ID: LCSD 680-859179/3-A
Matrix: Water
Analysis Batch: 859269

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	19.1		mg/L		95	80 - 120	3	20

Lab Sample ID: MB 680-859180/1-A
Matrix: Water
Analysis Batch: 859270

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.50		1.0	0.50	mg/L			10/13/24 02:22	1

Lab Sample ID: LCS 680-859180/2-A
Matrix: Water
Analysis Batch: 859270

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	18.8		mg/L		94	80 - 120

Lab Sample ID: LCSD 680-859180/3-A
Matrix: Water
Analysis Batch: 859270

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	18.8		mg/L		94	80 - 120	0	20

Lab Sample ID: 680-257064-5 DU
Matrix: Water
Analysis Batch: 859270

Client Sample ID: TMW-16-202410
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dissolved Organic Carbon	5.7		5.80		mg/L		2	30

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-859615/12
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.025		0.10	0.025	mg/L			10/15/24 12:20	1

Lab Sample ID: LCS 680-859615/11
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	2.00	1.89		mg/L		95	80 - 120

Lab Sample ID: 680-257064-29 MS
Matrix: Water
Analysis Batch: 859615

Client Sample ID: RW-69-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	0.38	HF	2.00	2.30		mg/L		96	80 - 120

Lab Sample ID: 680-257064-29 MSD
Matrix: Water
Analysis Batch: 859615

Client Sample ID: RW-69-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	0.38	HF	2.00	2.30		mg/L		96	80 - 120	0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 400-688286/3
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Lab Sample ID: LCS 400-688286/4
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.534	0.579		mg/L		109	80 - 120

Lab Sample ID: MRL 400-688286/2
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0996	0.115		mg/L		116	50 - 150

GC/MS VOA

Analysis Batch: 860053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-2	ITMW-21-202410	Total/NA	Water	8260D	
680-257064-3	DUP-03-202410	Total/NA	Water	8260D	
680-257064-4	TMW-32-202410	Total/NA	Water	8260D	
680-257064-6	MW-96-202410	Total/NA	Water	8260D	
680-257064-7	DUP-07-202410	Total/NA	Water	8260D	
680-257064-15	MW-191-202410	Total/NA	Water	8260D	
680-257064-16	ITMW-16-202410	Total/NA	Water	8260D	
680-257064-17	MW-40R-202410	Total/NA	Water	8260D	
MB 680-860053/10	Method Blank	Total/NA	Water	8260D	
LCS 680-860053/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860053/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-18	TMW-34-202410	Total/NA	Water	8260D	
680-257064-19	ITMW-1R-202410	Total/NA	Water	8260D	
680-257064-20	MW-82-202410	Total/NA	Water	8260D	
680-257064-21	MW-189-202410	Total/NA	Water	8260D	
680-257064-22	MW-91-202410	Total/NA	Water	8260D	
MB 680-860775/10	Method Blank	Total/NA	Water	8260D	
LCS 680-860775/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860775/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-23	MW-205-202410	Total/NA	Water	8260D	
680-257064-25	TMW-22R-202410	Total/NA	Water	8260D	
680-257064-27	MW-185-202410	Total/NA	Water	8260D	
MB 680-860783/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860783/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860783/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Leach Batch: 860801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-860801/1-A	Method Blank	Total/NA	Water	1311	

Analysis Batch: 860954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-1	MW-187-202410	Total/NA	Water	8260D	
680-257064-24	MW-197-202410	Total/NA	Water	8260D	
680-257064-29	RW-69-202410	Total/NA	Water	8260D	
680-257064-32	DUP-08-202410	Total/NA	Water	8260D	
680-257064-38	EB-04-202410	Total/NA	Water	8260D	
680-257064-39	TB-05-202410	Total/NA	Water	8260D	
MB 680-860954/8	Method Blank	Total/NA	Water	8260D	
LCS 680-860954/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860954/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-257064-1 MS	MW-187-202410	Total/NA	Water	8260D	
680-257064-1 MSD	MW-187-202410	Total/NA	Water	8260D	

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Analysis Batch: 860959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-33	MW-199-202410	Total/NA	Water	8260D	
680-257064-42	MW-198-202410	Total/NA	Water	8260D	
MB 680-860959/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860959/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860959/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-35	MW-83-202410	Total/NA	Water	8260D	
680-257064-36	IW-77-202410	Total/NA	Water	8260D	
680-257064-37	TMW-10-202410	Total/NA	Water	8260D	
680-257064-40	TB-06-202410	Total/NA	Water	8260D	
680-257064-41	IW-73-202410	Total/NA	Water	8260D	
MB 680-860967/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860967/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860967/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-257064-26 MS	MW-68-202410	Total/NA	Water	8260D	
680-257064-26 MSD	MW-68-202410	Total/NA	Water	8260D	

Analysis Batch: 860971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-21 - DL	MW-189-202410	Total/NA	Water	8260D	
680-257064-22	MW-91-202410	Total/NA	Water	8260D	
680-257064-23 - DL	MW-205-202410	Total/NA	Water	8260D	
680-257064-28	MW-56R-202410	Total/NA	Water	8260D	
680-257064-31	TMW-12-202410	Total/NA	Water	8260D	
680-257064-34	MW-172-202410	Total/NA	Water	8260D	
LB 680-860801/1-A	Method Blank	Total/NA	Water	8260D	860801
MB 680-860971/9	Method Blank	Total/NA	Water	8260D	
LCS 680-860971/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860971/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 860975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-26	MW-68-202410	Total/NA	Water	8260D	
680-257064-30	MW-201-202410	Total/NA	Water	8260D	
680-257064-31	TMW-12-202410	Total/NA	Water	8260D	
680-257064-32	DUP-08-202410	Total/NA	Water	8260D	
680-257064-34	MW-172-202410	Total/NA	Water	8260D	
680-257064-43	TB-07-202410	Total/NA	Water	8260D	
680-257064-44	TB-08-202410	Total/NA	Water	8260D	
MB 680-860975/8	Method Blank	Total/NA	Water	8260D	
LCS 680-860975/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-860975/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 564382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	RSK-175	564423
680-257064-5	TMW-16-202410	Total/NA	Water	RSK-175	564423

GC VOA (Continued)

Analysis Batch: 564382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-22	MW-91-202410	Total/NA	Water	RSK-175	564423
680-257064-27	MW-185-202410	Total/NA	Water	RSK-175	564423
680-257064-29	RW-69-202410	Total/NA	Water	RSK-175	564423
680-257064-34	MW-172-202410	Total/NA	Water	RSK-175	564423
680-257064-35	MW-83-202410	Total/NA	Water	RSK-175	564423
680-257064-37	TMW-10-202410	Total/NA	Water	RSK-175	564423
680-257064-41	IW-73-202410	Total/NA	Water	RSK-175	564423
680-257064-42	MW-198-202410	Total/NA	Water	RSK-175	564423
MB 410-564423/1-A	Method Blank	Total/NA	Water	RSK-175	564423
LCS 410-564423/2-A	Lab Control Sample	Total/NA	Water	RSK-175	564423
LCSD 410-564423/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	564423

Prep Batch: 564423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	RSK-175	
680-257064-5	TMW-16-202410	Total/NA	Water	RSK-175	
680-257064-22	MW-91-202410	Total/NA	Water	RSK-175	
680-257064-27	MW-185-202410	Total/NA	Water	RSK-175	
680-257064-29	RW-69-202410	Total/NA	Water	RSK-175	
680-257064-34	MW-172-202410	Total/NA	Water	RSK-175	
680-257064-35	MW-83-202410	Total/NA	Water	RSK-175	
680-257064-37	TMW-10-202410	Total/NA	Water	RSK-175	
680-257064-41	IW-73-202410	Total/NA	Water	RSK-175	
680-257064-42	MW-198-202410	Total/NA	Water	RSK-175	
MB 410-564423/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-564423/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-564423/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 564927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4 - DL	TMW-32-202410	Total/NA	Water	RSK-175	565105
680-257064-5 - DL	TMW-16-202410	Total/NA	Water	RSK-175	565105
680-257064-22 - DL	MW-91-202410	Total/NA	Water	RSK-175	565105
680-257064-37 - DL	TMW-10-202410	Total/NA	Water	RSK-175	565105
680-257064-42 - DL	MW-198-202410	Total/NA	Water	RSK-175	565105
MB 410-565105/1-A	Method Blank	Total/NA	Water	RSK-175	565105
LCS 410-565105/2-A	Lab Control Sample	Total/NA	Water	RSK-175	565105
LCSD 410-565105/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	565105

Prep Batch: 565105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4 - DL	TMW-32-202410	Total/NA	Water	RSK-175	
680-257064-5 - DL	TMW-16-202410	Total/NA	Water	RSK-175	
680-257064-22 - DL	MW-91-202410	Total/NA	Water	RSK-175	
680-257064-37 - DL	TMW-10-202410	Total/NA	Water	RSK-175	
680-257064-42 - DL	MW-198-202410	Total/NA	Water	RSK-175	
MB 410-565105/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-565105/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-565105/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

GC VOA

Analysis Batch: 688575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-8	MW-61R-202410	Total/NA	Water	RSK-175	
680-257064-10	TMW-26-202410	Total/NA	Water	RSK-175	
680-257064-10	TMW-26-202410	Total/NA	Water	RSK-175	
680-257064-11	MW-194-202410	Total/NA	Water	RSK-175	
680-257064-18	TMW-34-202410	Total/NA	Water	RSK-175	
680-257064-18	TMW-34-202410	Total/NA	Water	RSK-175	
680-257064-25	TMW-22R-202410	Total/NA	Water	RSK-175	
680-257064-25	TMW-22R-202410	Total/NA	Water	RSK-175	
MB 400-688575/3	Method Blank	Total/NA	Water	RSK-175	
LCS 400-688575/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 400-688575/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 116637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	VFA-HPLC	
680-257064-5	TMW-16-202410	Total/NA	Water	VFA-HPLC	
680-257064-8	MW-61R-202410	Total/NA	Water	VFA-HPLC	
680-257064-10	TMW-26-202410	Total/NA	Water	VFA-HPLC	
680-257064-11	MW-194-202410	Total/NA	Water	VFA-HPLC	
680-257064-18	TMW-34-202410	Total/NA	Water	VFA-HPLC	
680-257064-22	MW-91-202410	Total/NA	Water	VFA-HPLC	
680-257064-25	TMW-22R-202410	Total/NA	Water	VFA-HPLC	
680-257064-37	TMW-10-202410	Total/NA	Water	VFA-HPLC	
MB 670-116637/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-116637/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-116637/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 860251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-5	TMW-16-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-8	MW-61R-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-860251/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-860251/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-860251/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 860639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-10	TMW-26-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-11	MW-194-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-18	TMW-34-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-22	MW-91-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-25	TMW-22R-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-27	MW-185-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-29	RW-69-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-34	MW-172-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-35	MW-83-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-37	TMW-10-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-41	IW-73-202410	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 860639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-42	MW-198-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-860639/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-860639/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-860639/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-257064-10 MS	TMW-26-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-10 MSD	TMW-26-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-41 MS	IW-73-202410	Total/NA	Water	300.0-1993 R2.1	
680-257064-41 MSD	IW-73-202410	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 859404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-5	TMW-16-202410	Total Recoverable	Water	3005A	
680-257064-11	MW-194-202410	Total Recoverable	Water	3005A	
680-257064-22	MW-91-202410	Total Recoverable	Water	3005A	
680-257064-27	MW-185-202410	Total Recoverable	Water	3005A	
680-257064-35	MW-83-202410	Total Recoverable	Water	3005A	
680-257064-42	MW-198-202410	Total Recoverable	Water	3005A	
MB 680-859404/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-859404/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 859406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total Recoverable	Water	3005A	
680-257064-8	MW-61R-202410	Total Recoverable	Water	3005A	
680-257064-10	TMW-26-202410	Total Recoverable	Water	3005A	
680-257064-18	TMW-34-202410	Total Recoverable	Water	3005A	
680-257064-25	TMW-22R-202410	Total Recoverable	Water	3005A	
680-257064-29	RW-69-202410	Total Recoverable	Water	3005A	
680-257064-34	MW-172-202410	Total Recoverable	Water	3005A	
680-257064-37	TMW-10-202410	Total Recoverable	Water	3005A	
680-257064-41	IW-73-202410	Total Recoverable	Water	3005A	
MB 680-859406/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-859406/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-257064-29 MS	RW-69-202410	Total Recoverable	Water	3005A	
680-257064-29 MSD	RW-69-202410	Total Recoverable	Water	3005A	

Analysis Batch: 859655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-5	TMW-16-202410	Total Recoverable	Water	6010D	859404
680-257064-11	MW-194-202410	Total Recoverable	Water	6010D	859404
680-257064-22	MW-91-202410	Total Recoverable	Water	6010D	859404
680-257064-27	MW-185-202410	Total Recoverable	Water	6010D	859404
680-257064-35	MW-83-202410	Total Recoverable	Water	6010D	859404
680-257064-42	MW-198-202410	Total Recoverable	Water	6010D	859404
MB 680-859404/1-A	Method Blank	Total Recoverable	Water	6010D	859404
LCS 680-859404/2-A	Lab Control Sample	Total Recoverable	Water	6010D	859404

Metals

Analysis Batch: 860153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total Recoverable	Water	6010D	859406
680-257064-8	MW-61R-202410	Total Recoverable	Water	6010D	859406
680-257064-10	TMW-26-202410	Total Recoverable	Water	6010D	859406
680-257064-18	TMW-34-202410	Total Recoverable	Water	6010D	859406
680-257064-25	TMW-22R-202410	Total Recoverable	Water	6010D	859406
680-257064-29	RW-69-202410	Total Recoverable	Water	6010D	859406
680-257064-34	MW-172-202410	Total Recoverable	Water	6010D	859406
680-257064-37	TMW-10-202410	Total Recoverable	Water	6010D	859406
680-257064-41	IW-73-202410	Total Recoverable	Water	6010D	859406
MB 680-859406/1-A	Method Blank	Total Recoverable	Water	6010D	859406
LCS 680-859406/2-A	Lab Control Sample	Total Recoverable	Water	6010D	859406
680-257064-29 MS	RW-69-202410	Total Recoverable	Water	6010D	859406
680-257064-29 MSD	RW-69-202410	Total Recoverable	Water	6010D	859406

General Chemistry

Analysis Batch: 688286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-37	TMW-10-202410	Total/NA	Water	SM 4500 S2 D	
680-257064-41	IW-73-202410	Total/NA	Water	SM 4500 S2 D	
680-257064-42	MW-198-202410	Total/NA	Water	SM 4500 S2 D	
MB 400-688286/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 400-688286/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 400-688286/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 859176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	353.2	
680-257064-5	TMW-16-202410	Total/NA	Water	353.2	
680-257064-8	MW-61R-202410	Total/NA	Water	353.2	
680-257064-10	TMW-26-202410	Total/NA	Water	353.2	
680-257064-11	MW-194-202410	Total/NA	Water	353.2	
680-257064-18	TMW-34-202410	Total/NA	Water	353.2	
680-257064-22	MW-91-202410	Total/NA	Water	353.2	
680-257064-25	TMW-22R-202410	Total/NA	Water	353.2	
680-257064-27	MW-185-202410	Total/NA	Water	353.2	
680-257064-34	MW-172-202410	Total/NA	Water	353.2	
680-257064-35	MW-83-202410	Total/NA	Water	353.2	
680-257064-37	TMW-10-202410	Total/NA	Water	353.2	
680-257064-42	MW-198-202410	Total/NA	Water	353.2	
MB 680-859176/12	Method Blank	Total/NA	Water	353.2	
LCS 680-859176/13	Lab Control Sample	Total/NA	Water	353.2	
680-257064-4 MS	TMW-32-202410	Total/NA	Water	353.2	
680-257064-4 MSD	TMW-32-202410	Total/NA	Water	353.2	
680-257064-8 MS	MW-61R-202410	Total/NA	Water	353.2	
680-257064-8 MSD	MW-61R-202410	Total/NA	Water	353.2	

Filtration Batch: 859179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Dissolved	Water	FILTRATION	
MB 680-859179/1-A	Method Blank	Dissolved	Water	FILTRATION	

General Chemistry (Continued)

Filtration Batch: 859179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-859179/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-859179/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Filtration Batch: 859180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-5	TMW-16-202410	Dissolved	Water	FILTRATION	
680-257064-8	MW-61R-202410	Dissolved	Water	FILTRATION	
680-257064-10	TMW-26-202410	Dissolved	Water	FILTRATION	
680-257064-11	MW-194-202410	Dissolved	Water	FILTRATION	
680-257064-18	TMW-34-202410	Dissolved	Water	FILTRATION	
680-257064-22	MW-91-202410	Dissolved	Water	FILTRATION	
680-257064-25	TMW-22R-202410	Dissolved	Water	FILTRATION	
680-257064-37	TMW-10-202410	Dissolved	Water	FILTRATION	
MB 680-859180/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-859180/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-859180/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
680-257064-5 DU	TMW-16-202410	Dissolved	Water	FILTRATION	

Analysis Batch: 859269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Dissolved	Water	5310 B-2011	859179
MB 680-859179/1-A	Method Blank	Dissolved	Water	5310 B-2011	859179
LCS 680-859179/2-A	Lab Control Sample	Dissolved	Water	5310 B-2011	859179
LCSD 680-859179/3-A	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	859179

Analysis Batch: 859270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-5	TMW-16-202410	Dissolved	Water	5310 B-2011	859180
680-257064-8	MW-61R-202410	Dissolved	Water	5310 B-2011	859180
680-257064-10	TMW-26-202410	Dissolved	Water	5310 B-2011	859180
680-257064-11	MW-194-202410	Dissolved	Water	5310 B-2011	859180
680-257064-18	TMW-34-202410	Dissolved	Water	5310 B-2011	859180
680-257064-22	MW-91-202410	Dissolved	Water	5310 B-2011	859180
680-257064-25	TMW-22R-202410	Dissolved	Water	5310 B-2011	859180
680-257064-37	TMW-10-202410	Dissolved	Water	5310 B-2011	859180
MB 680-859180/1-A	Method Blank	Dissolved	Water	5310 B-2011	859180
LCS 680-859180/2-A	Lab Control Sample	Dissolved	Water	5310 B-2011	859180
LCSD 680-859180/3-A	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	859180
680-257064-5 DU	TMW-16-202410	Dissolved	Water	5310 B-2011	859180

Analysis Batch: 859343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	Nitrate by calc	
680-257064-5	TMW-16-202410	Total/NA	Water	Nitrate by calc	
680-257064-8	MW-61R-202410	Total/NA	Water	Nitrate by calc	
680-257064-10	TMW-26-202410	Total/NA	Water	Nitrate by calc	
680-257064-11	MW-194-202410	Total/NA	Water	Nitrate by calc	
680-257064-18	TMW-34-202410	Total/NA	Water	Nitrate by calc	
680-257064-22	MW-91-202410	Total/NA	Water	Nitrate by calc	
680-257064-25	TMW-22R-202410	Total/NA	Water	Nitrate by calc	
680-257064-27	MW-185-202410	Total/NA	Water	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 859343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-34	MW-172-202410	Total/NA	Water	Nitrate by calc	
680-257064-35	MW-83-202410	Total/NA	Water	Nitrate by calc	
680-257064-37	TMW-10-202410	Total/NA	Water	Nitrate by calc	
680-257064-42	MW-198-202410	Total/NA	Water	Nitrate by calc	

Analysis Batch: 859615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	SM 3500 FE D	
680-257064-5	TMW-16-202410	Total/NA	Water	SM 3500 FE D	
680-257064-8	MW-61R-202410	Total/NA	Water	SM 3500 FE D	
680-257064-10	TMW-26-202410	Total/NA	Water	SM 3500 FE D	
680-257064-11	MW-194-202410	Total/NA	Water	SM 3500 FE D	
680-257064-18	TMW-34-202410	Total/NA	Water	SM 3500 FE D	
680-257064-22	MW-91-202410	Total/NA	Water	SM 3500 FE D	
680-257064-25	TMW-22R-202410	Total/NA	Water	SM 3500 FE D	
680-257064-27	MW-185-202410	Total/NA	Water	SM 3500 FE D	
680-257064-29	RW-69-202410	Total/NA	Water	SM 3500 FE D	
680-257064-34	MW-172-202410	Total/NA	Water	SM 3500 FE D	
680-257064-35	MW-83-202410	Total/NA	Water	SM 3500 FE D	
680-257064-37	TMW-10-202410	Total/NA	Water	SM 3500 FE D	
680-257064-41	IW-73-202410	Total/NA	Water	SM 3500 FE D	
680-257064-42	MW-198-202410	Total/NA	Water	SM 3500 FE D	
MB 680-859615/12	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-859615/11	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
680-257064-29 MS	RW-69-202410	Total/NA	Water	SM 3500 FE D	
680-257064-29 MSD	RW-69-202410	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 859802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	5310 B-2011	
680-257064-5	TMW-16-202410	Total/NA	Water	5310 B-2011	
680-257064-8	MW-61R-202410	Total/NA	Water	5310 B-2011	
680-257064-10	TMW-26-202410	Total/NA	Water	5310 B-2011	
680-257064-11	MW-194-202410	Total/NA	Water	5310 B-2011	
680-257064-18	TMW-34-202410	Total/NA	Water	5310 B-2011	
680-257064-22	MW-91-202410	Total/NA	Water	5310 B-2011	
680-257064-25	TMW-22R-202410	Total/NA	Water	5310 B-2011	
680-257064-37	TMW-10-202410	Total/NA	Water	5310 B-2011	
MB 680-859802/1	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-859802/2	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-859802/3	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	

Analysis Batch: 859968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	353.2	
680-257064-5	TMW-16-202410	Total/NA	Water	353.2	
MB 680-859968/15	Method Blank	Total/NA	Water	353.2	
LCS 680-859968/14	Lab Control Sample	Total/NA	Water	353.2	
680-257064-4 MS	TMW-32-202410	Total/NA	Water	353.2	
680-257064-4 MSD	TMW-32-202410	Total/NA	Water	353.2	

General Chemistry

Analysis Batch: 860209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-8	MW-61R-202410	Total/NA	Water	353.2	
680-257064-10	TMW-26-202410	Total/NA	Water	353.2	
680-257064-11	MW-194-202410	Total/NA	Water	353.2	
680-257064-18	TMW-34-202410	Total/NA	Water	353.2	
680-257064-22	MW-91-202410	Total/NA	Water	353.2	
680-257064-25	TMW-22R-202410	Total/NA	Water	353.2	
680-257064-27	MW-185-202410	Total/NA	Water	353.2	
680-257064-34	MW-172-202410	Total/NA	Water	353.2	
680-257064-35	MW-83-202410	Total/NA	Water	353.2	
680-257064-37	TMW-10-202410	Total/NA	Water	353.2	
680-257064-42	MW-198-202410	Total/NA	Water	353.2	
MB 680-860209/17	Method Blank	Total/NA	Water	353.2	
LCS 680-860209/18	Lab Control Sample	Total/NA	Water	353.2	
680-257064-11 MS	MW-194-202410	Total/NA	Water	353.2	
680-257064-11 MSD	MW-194-202410	Total/NA	Water	353.2	

Analysis Batch: 860915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257064-4	TMW-32-202410	Total/NA	Water	SM 3500	
680-257064-5	TMW-16-202410	Total/NA	Water	SM 3500	
680-257064-8	MW-61R-202410	Total/NA	Water	SM 3500	
680-257064-10	TMW-26-202410	Total/NA	Water	SM 3500	
680-257064-11	MW-194-202410	Total/NA	Water	SM 3500	
680-257064-18	TMW-34-202410	Total/NA	Water	SM 3500	
680-257064-22	MW-91-202410	Total/NA	Water	SM 3500	
680-257064-25	TMW-22R-202410	Total/NA	Water	SM 3500	
680-257064-29	RW-69-202410	Total/NA	Water	SM 3500	
680-257064-37	TMW-10-202410	Total/NA	Water	SM 3500	
680-257064-41	IW-73-202410	Total/NA	Water	SM 3500	
680-257064-42	MW-198-202410	Total/NA	Water	SM 3500	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: MW-187-202410
Date Collected: 10/10/24 09:05
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860954	10/24/24 12:10	Y1S	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: ITMW-21-202410
Date Collected: 10/10/24 09:15
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 16:40	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-03-202410
Date Collected: 10/10/24 09:15
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 17:01	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-32-202410
Date Collected: 10/10/24 09:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 17:23	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 20:12	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565105	10/18/24 11:06	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	5	5 mL	5 mL	564927	10/18/24 18:19	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860251	10/19/24 17:03	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:31	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:24	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859968	10/17/24 12:39	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859179	10/12/24 13:47	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859269	10/13/24 01:47	NVF	EET SAV
	Instrument ID: TOC8									

Eurofins Savannah

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: TMW-32-202410

Date Collected: 10/10/24 09:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 00:41	NVF	EET SAV
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:44	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: TMW-16-202410

Date Collected: 10/10/24 09:06
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 20:31	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565105	10/18/24 11:06	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	50	5 mL	5 mL	564927	10/18/24 18:35	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860251	10/19/24 17:10	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:17	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:27	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859968	10/17/24 12:48	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 03:26	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 00:57	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/17/24 14:27	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:44	KD	EET SAV
	Instrument ID: KONELAB4									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: MW-96-202410

Date Collected: 10/10/24 09:55
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 17:44	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-07-202410

Date Collected: 10/10/24 09:55
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 18:06	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-61R-202410

Date Collected: 10/10/24 09:35
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688575	10/21/24 11:08	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860251	10/19/24 17:43	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:19	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:25	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 14:04	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 04:01	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 01:15	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:44	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: TMW-26-202410

Lab Sample ID: 680-257064-10

Date Collected: 10/10/24 10:30

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688575	10/21/24 11:36	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		5	1 mL	1 mL	688575	10/21/24 16:05	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860639	10/22/24 15:19	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:28	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:28	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 14:03	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 04:19	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 01:33	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-194-202410

Lab Sample ID: 680-257064-11

Date Collected: 10/10/24 08:50

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688575	10/21/24 11:45	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860639	10/22/24 15:38	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:07	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:29	NVF	EET SAV
	Instrument ID: SEAL 1									

Client Sample ID: MW-194-202410

Lab Sample ID: 680-257064-11

Date Collected: 10/10/24 08:50

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:57	KD	EET SAV
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 04:36	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 01:50	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-191-202410

Lab Sample ID: 680-257064-15

Date Collected: 10/10/24 11:15

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 18:27	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: ITMW-16-202410

Lab Sample ID: 680-257064-16

Date Collected: 10/10/24 11:25

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 18:49	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-40R-202410

Lab Sample ID: 680-257064-17

Date Collected: 10/10/24 12:05

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860053	10/18/24 19:10	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-34-202410

Lab Sample ID: 680-257064-18

Date Collected: 10/10/24 11:30

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860775	10/23/24 18:28	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688575	10/21/24 11:54	BJ	EET PEN
	Instrument ID: Woody									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: TMW-34-202410

Lab Sample ID: 680-257064-18

Date Collected: 10/10/24 11:30

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		5	1 mL	1 mL	688575	10/21/24 16:19	BJ	EET PEN
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860639	10/22/24 15:44	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:40	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:30	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:50	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 04:54	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 02:08	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: ITMW-1R-202410

Lab Sample ID: 680-257064-19

Date Collected: 10/10/24 12:10

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860775	10/23/24 18:49	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-82-202410

Lab Sample ID: 680-257064-20

Date Collected: 10/10/24 12:10

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860775	10/23/24 19:11	MLL	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-189-202410

Lab Sample ID: 680-257064-21

Date Collected: 10/10/24 12:05

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860775	10/23/24 19:32	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	860971	10/24/24 14:29	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-91-202410

Lab Sample ID: 680-257064-22

Date Collected: 10/10/24 12:25

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860775	10/23/24 19:53	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	860971	10/24/24 12:32	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 21:09	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565105	10/18/24 11:06	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	50	5 mL	5 mL	564927	10/18/24 18:52	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860639	10/22/24 15:51	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:15	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:28	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:48	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 05:12	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 02:24	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: MW-205-202410

Lab Sample ID: 680-257064-23

Date Collected: 10/10/24 13:26

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	860971	10/24/24 14:04	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	8260D		2	5 mL	5 mL	860783	10/23/24 18:36	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-197-202410

Lab Sample ID: 680-257064-24

Date Collected: 10/10/24 13:20

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860954	10/24/24 12:32	Y1S	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: TMW-22R-202410

Lab Sample ID: 680-257064-25

Date Collected: 10/10/24 13:36

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860783	10/23/24 17:51	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688575	10/21/24 12:03	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	RSK-175		2	1 mL	1 mL	688575	10/21/24 16:30	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 15:57	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:26	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:31	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:46	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 05:30	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 02:44	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: TMW-22R-202410

Lab Sample ID: 680-257064-25

Date Collected: 10/10/24 13:36
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:44	KD	EET SAV

Client Sample ID: MW-68-202410

Lab Sample ID: 680-257064-26

Date Collected: 10/10/24 13:50
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 12:30	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: MW-185-202410

Lab Sample ID: 680-257064-27

Date Collected: 10/10/24 13:00
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860783	10/23/24 18:12	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 21:27	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860639	10/22/24 16:04	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:12	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:29	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		5	2 mL	2 mL	860209	10/18/24 14:49	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-56R-202410

Lab Sample ID: 680-257064-28

Date Collected: 10/10/24 14:15
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	860971	10/24/24 16:44	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: RW-69-202410

Lab Sample ID: 680-257064-29

Date Collected: 10/10/24 14:25

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860954	10/24/24 12:53	Y1S	EET SAV
	Instrument ID: CMSAA									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 21:46	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 16:29	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:09	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-201-202410

Lab Sample ID: 680-257064-30

Date Collected: 10/10/24 14:45

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 12:52	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: TMW-12-202410

Lab Sample ID: 680-257064-31

Date Collected: 10/10/24 15:05

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 13:13	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		5	5 mL	5 mL	860971	10/24/24 14:54	Y1S	EET SAV
	Instrument ID: CMSO2									

Client Sample ID: DUP-08-202410

Lab Sample ID: 680-257064-32

Date Collected: 10/10/24 15:05

Matrix: Water

Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	860954	10/24/24 14:23	Y1S	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 13:35	P1C	EET SAV
	Instrument ID: CMSAJ									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: MW-199-202410

Date Collected: 10/10/24 15:25
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860959	10/24/24 15:07	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-172-202410

Date Collected: 10/10/24 15:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 14:18	P1C	EET SAV
	Instrument ID: CMSAJ									
Total/NA	Analysis	8260D		5	5 mL	5 mL	860971	10/24/24 15:43	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 22:05	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 16:36	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:38	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:30	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		2	2 mL	2 mL	860209	10/18/24 14:48	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-83-202410

Date Collected: 10/10/24 15:45
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-35

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860967	10/24/24 13:12	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 22:24	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 16:42	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:09	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-83-202410
Lab Sample ID: 680-257064-35
Date Collected: 10/10/24 15:45
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:31	NVF	EET SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:41	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: IW-77-202410
Lab Sample ID: 680-257064-36
Date Collected: 10/10/24 16:00
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860967	10/24/24 13:34	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-10-202410
Lab Sample ID: 680-257064-37
Date Collected: 10/10/24 16:15
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860967	10/24/24 13:55	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 22:43	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565105	10/18/24 11:06	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	20	5 mL	5 mL	564927	10/18/24 19:26	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 16:50	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:16	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 18:32	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860209	10/18/24 13:39	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859180	10/12/24 13:48	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859270	10/13/24 05:47	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859802	10/16/24 03:02	NVF	EET SAV
	Instrument ID: TOC8									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: TMW-10-202410
Date Collected: 10/10/24 16:15
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:44	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: EB-04-202410
Date Collected: 10/10/24 17:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860954	10/24/24 11:26	Y1S	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: TB-05-202410
Date Collected: 10/10/24 08:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860954	10/24/24 11:48	Y1S	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: TB-06-202410
Date Collected: 10/10/24 08:00
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860967	10/24/24 14:17	Y1S	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: IW-73-202410
Date Collected: 10/10/24 16:50
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860967	10/24/24 12:51	Y1S	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 23:01	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860639	10/22/24 16:56	T1C	EET SAV
	Instrument ID: CICR									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257064-1

Client Sample ID: IW-73-202410

Date Collected: 10/10/24 16:50
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-41

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:21	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: MW-198-202410

Date Collected: 10/10/24 16:25
Date Received: 10/11/24 10:05

Lab Sample ID: 680-257064-42

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		25	5 mL	5 mL	860959	10/24/24 15:30	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	564423	10/17/24 10:24	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564382	10/17/24 23:20	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565105	10/18/24 11:06	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	5	5 mL	5 mL	564927	10/18/24 20:20	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860639	10/22/24 17:15	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 17:20	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859176	10/11/24 17:31	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		5	2 mL	2 mL	860209	10/18/24 14:48	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/20/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			860915	10/23/24 16:00	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-07-202410
Lab Sample ID: 680-257064-43
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 11:47	P1C	EET SAV
	Instrument ID: CMSAJ									

Client Sample ID: TB-08-202410
Lab Sample ID: 680-257064-44
Date Collected: 10/10/24 08:00
Matrix: Water
Date Received: 10/11/24 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	860975	10/24/24 12:09	P1C	EET SAV
	Instrument ID: CMSAJ									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00689	08-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257064-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET PEN
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Dissolved (DOC)	SM	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
SM 4500 S2 D	Sulfide, Total	SM	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 5
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

* MW-61R-202410 resample due to missed bottles

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 - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-187-202410	10/10/24	0905	G	W	N	N	X														MS/MSD
MW-187-202410-MS		0905																			
MW-187-202410-MSD		0905																			
ITMW-21-202410		0915																			
DUP-03-202410		0915																			
TMW-32-202410		0900						X	X		X		X	X	X	X	X		X		
TMW-16-202410		0906						X	X		X		X	X	X	X	X		X		
MW-96-202410		0955																			
DUP-07-202410		0955																			
MW-61R-202410		0935						X			X	X		X	X	X	X		X		RESAMPLE
MW-55R-202410	↓	1040	↓	↓	↓	↓	X				f mrg						X mrg				

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 _____ Mon

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: 10/10/2024 1730	Company	Received by:	Date/Time: 10/11/24 1005	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.4/4.4 4.4/4.4 4.7/4.7 4.9/4.9

680-257064 Chain of Custody

Ver: 05/06/2024

10/25/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 2 of 5
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft. Smith AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_Fe+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_Fe+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
		Preservation Code:			X	X	A	S	N	N	N	N	A	N	S	N	D	CB	A	X	
TMW-26-202410	10/10/24	1030	G	W	MN		X	X			X	X		X	X	X	X		X		
MW-194-202410		0850						X			X	X		X	X	X	X		X		
TMW-23-202410		1045																			
IW-78-202410		1040																			
DUP-06-202410		1040																			
MW-191-202410		1115																			
ITMW-16-202410		1125																			
MW-40R-202410		1205						X			X	X		X	X	X	X		X		
TMW-34-202410		1130						-													
ITMW-1R-202410		1210																			
MW-82-202410	↓	1210	↓	↓	↓	↓	↓														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24 1730			10/11/24 1005	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 3 of 5
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std Tat			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft. Smith AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-189-202410	10/10/24	1205	G	G	N	N	X										X MS				
MW-91-202410		1225					X	X	X		X		X	X	X	X	X		X		
MW-205-202410		1326					X														
MW-197-202410		1320																			
TMW-22R-202410		1336						X			XX			X	X	X	X		X		
MW-68-202410		1350																			MS/MSD
MW-68-202410-MS		1350																			
MW-68-202410-MSD		1350																			
MW-185-202410		1300						X	X				X	X			X				MW-185-202410
MW-56R-202410		1415																			
RW-69-202410	↓	1425	↓	↓	↓	↓	↓				X		X	X			X	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24 1730			10/11/24 1005	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 4 of 5
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual	Project #:			
Site: Whirlpool Ft Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-201-202410	10/10/24	1445	G	W	N	N	X														
TMW-12-202410	10/10/24	1505																			
DUP-08-202410		1505																			
MW-199-202410		1525																			
MW-172-202410		1500						X	X				X	X			X				
MW-83-202410		1545						X	X				X	X			X				
IW-77-202410		1600																			
TMW-10-202410		1615						X			X		X	X	X	X	X	X	X		
EB-04-202410		1700																			
TB-05-202410		0800																			
TB-06-202410		0800																			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24			10/11/24 1005	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 5 of 5
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool 2024 Annual Event	Project #:			
Site: Whirlpool Ft Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
IW-73-202410	10/10/24	1650	G	W	N	N	X				X		X	X			X	X			
MW-198-202410	10/10/24	1625	G	W	N	N	X	X	X		X		X	X			X	X			
TB-07-202410	10/10/24	~~0800~~	G	W	N	N	X														
TB-08-202410	10/10/24	0800	G	W	N	N	X														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/10/24 1730			10/11/24 1025	
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784656.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257064-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/24/2024	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			Other:
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ MEE (Dissolved Gases)	SM4500_S2_D/ (MOD) Sulfide, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-61R-202410 (680-257064-8)	10/10/24	09:35 Central	G	Water			X		3	
TMW-26-202410 (680-257064-10)	10/10/24	10:30 Central	G	Water			X		3	
MW-194-202410 (680-257064-11)	10/10/24	08:50 Central	G	Water			X		3	
TMW-34-202410 (680-257064-18)	10/10/24	11:30 Central	G	Water			X		3	
TMW-22R-202410 (680-257064-25)	10/10/24	13:36 Central	G	Water			X		3	
TMW-10-202410 (680-257064-37)	10/10/24	16:15 Central	G	Water				X	1	
IW-73-202410 (680-257064-41)	10/10/24	16:50 Central	G	Water				X	1	
MW-198-202410 (680-257064-42)	10/10/24	16:25 Central	G	Water				X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/16/24 9:06	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0, 2.5 IR8

Ver: 05/06/2024

10/25/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784639.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257064-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 10/25/2024	Analysis Requested		Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TMW-32-202410 (680-257064-4)	10/10/24	09:00 Central	G	Water			X	2	
TMW-16-202410 (680-257064-5)	10/10/24	09:06 Central	G	Water			X	2	
MW-91-202410 (680-257064-22)	10/10/24	12:25 Central	G	Water			X	2	
MW-185-202410 (680-257064-27)	10/10/24	13:00 Central	G	Water			X	2	
RW-69-202410 (680-257064-29)	10/10/24	14:25 Central	G	Water			X	2	
MW-172-202410 (680-257064-34)	10/10/24	15:00 Central	G	Water			X	2	
MW-83-202410 (680-257064-35)	10/10/24	15:45 Central	G	Water			X	2	
TMW-10-202410 (680-257064-37)	10/10/24	16:15 Central	G	Water			X	2	
IW-73-202410 (680-257064-41)	10/10/24	16:50 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 10/15/24 1300	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/16/24 10:30	Company BLUEST

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3/3.0

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784639.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257064-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 10/25/2024	Analysis Requested		Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601	PO #:			
Phone: 717-656-2300(Tel)	WO #:			
Email:	Project #: 68031817			Other:
Project Name: Whirlpool 2024 Annual Fort Smith, AR	SSOW#:			
Site:				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-198-202410 (680-257064-42)	10/10/24	16:25 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	10/15/24 1300				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				10/16/24 10:30	ECLSFT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 3.3/3.0

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784629.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257064-1
Address: 481 Newburyport Avenue,	Due Date Requested: 10/23/2024	Analysis Requested		Preservation Codes:
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VFA_HPLC_PREC/ VFAS (8)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TMW-32-202410 (680-257064-4)	10/10/24	09:00 Central	G	Water			X	2	
TMW-16-202410 (680-257064-5)	10/10/24	09:06 Central	G	Water			X	2	
MW-61R-202410 (680-257064-8)	10/10/24	09:35 Central	G	Water			X	2	
TMW-26-202410 (680-257064-10)	10/10/24	10:30 Central	G	Water			X	2	
MW-194-202410 (680-257064-11)	10/10/24	08:50 Central	G	Water			X	1	
TMW-34-202410 (680-257064-18)	10/10/24	11:30 Central	G	Water			X	2	
MW-91-202410 (680-257064-22)	10/10/24	12:25 Central	G	Water			X	2	
TMW-22R-202410 (680-257064-25)	10/10/24	13:36 Central	G	Water			X	2	
TMW-10-202410 (680-257064-37)	10/10/24	16:15 Central	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/15/24 1230		BB	10/15 950	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Cooler Temperature(s) °C and Other Remarks: 1.1/1.6

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257064-1

Login Number: 257064
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257064-1

Login Number: 257064
List Number: 3
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 10/16/24 12:25 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257064-1

Login Number: 257064
List Number: 2
Creator: Beck, Brent

List Source: Eurofins Orlando
List Creation: 10/16/24 12:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257064-1

Login Number: 257064
List Number: 4
Creator: Roberts, Darrien

List Source: Eurofins Pensacola
List Creation: 10/16/24 03:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C, 0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	<12. HC318548
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
10851 Mastin Boulevard
Suite 100
Overland Park, Kansas 66210

Generated 11/14/2024 8:53:38 PM Revision 1

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-257090-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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 Southeast, LLC Project Manager.

Authorization

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Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
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.
S1-	Surrogate recovery exceeds control limits, low biased.

HPLC/IC

Qualifier	Qualifier Description
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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257090-1	MW-25R-202410	Water	10/11/24 07:40	10/12/24 10:41
680-257090-2	ITMW-6-202410	Water	10/11/24 08:45	10/12/24 10:41
680-257090-3	MW-175-202410	Water	10/11/24 08:05	10/12/24 10:41
680-257090-4	MW-178-202410	Water	10/11/24 08:45	10/12/24 10:41
680-257090-5	MW-93-202410	Water	10/11/24 09:25	10/12/24 10:41
680-257090-6	ITMW-9-202410	Water	10/11/24 09:00	10/12/24 10:41
680-257090-7	MW-58R-202410	Water	10/11/24 09:20	10/12/24 10:41
680-257090-8	TMW-11-202410	Water	10/11/24 10:00	10/12/24 10:41
680-257090-10	ITMW-5-202410	Water	10/11/24 10:00	10/12/24 10:41
680-257090-11	MW-95-202410	Water	10/11/24 10:24	10/12/24 10:41
680-257090-12	MW-84-202410	Water	10/11/24 10:00	10/12/24 10:41
680-257090-14	MW-57R-202410	Water	10/11/24 11:00	10/12/24 10:41
680-257090-15	ITMW-18-202410	Water	10/11/24 11:50	10/12/24 10:41
680-257090-16	TMW-24-202410	Water	10/11/24 11:15	10/12/24 10:41
680-257090-17	MW-87-202410	Water	10/11/24 11:50	10/12/24 10:41
680-257090-18	ITMW-10-202410	Water	10/11/24 12:50	10/12/24 10:41
680-257090-19	RW-1-202410	Water	10/11/24 12:10	10/12/24 10:41
680-257090-20	MW-215-202410	Water	10/11/24 13:40	10/12/24 10:41
680-257090-21	EB-05-202410	Water	10/11/24 15:00	10/12/24 10:41
680-257090-22	EB-06-202410	Water	10/11/24 15:00	10/12/24 10:41
680-257090-23	ITMW-19-202410	Water	10/11/24 00:00	10/12/24 10:41
680-257090-24	DUP-10-202410	Water	10/11/24 00:00	10/12/24 10:41
680-257090-25	TB-09-202410	Water	10/11/24 08:00	10/12/24 10:41
680-257090-26	TB-10-202410	Water	10/11/24 08:00	10/12/24 10:41
680-257090-27	MW-38-202410	Water	10/11/24 14:00	10/12/24 10:41
680-257090-28	TB-11-202410	Water	10/11/24 08:00	10/12/24 10:41

Job ID: 680-257090-1 Eurofins Savannah

Job Narrative
680-257090-1

Revision 1
The report being provided is a revision of the original report sent on 10/28/2024. The report (revision 1) is being revised in order to correct the Client Sample ID nomenclature to match the COC for DUP-10, TB-09 and TB-10 samples.

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.

Receipt
The samples were received on 10/12/2024 10:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.9°C, 3.8°C and 5.1°C.

Receipt Exceptions
The following samples were listed on the Chain of Custody (COC); however, no samples were received: MW-83-202410. Note: this sample was collected on 10/10/24 and submitted with samples in Job# 680-257064-1.

A bottle for Sulfide was not received for ITMW-9-202410 (680-257090-6).

A refrigerator malfunction occured that froze numerous VOC & RSK vials on 10/13/24. Due to this malfunction, all the vials for the following VOC samples broke and testing could not be completed: MW-204-202410 (680-257090-9) and MW-46R-202410 (680-257090-13).

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-25R-202410 (680-257090-1), ITMW-6-202410 (680-257090-2), MW-93-202410 (680-257090-5), ITMW-9-202410 (680-257090-6), MW-58R-202410 (680-257090-7), ITMW-5-202410 (680-257090-10), MW-95-202410 (680-257090-11), MW-57R-202410 (680-257090-14), ITMW-18-202410 (680-257090-15), TMW-24-202410 (680-257090-16), MW-87-202410 (680-257090-17), ITMW-10-202410 (680-257090-18), RW-1-202410 (680-257090-19), MW-215-202410 (680-257090-20), ITMW-19-202410 (680-257090-23), DUP-10 (680-257090-24) and MW-38-202410 (680-257090-27). Elevated reporting limits (RLs) are provided.

Method 8260D: The following volatile samples had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): ITMW-19-202410 (680-257090-23) and DUP-10 (680-257090-24).

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-861110 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-861193 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 680-861193 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC VOA
Method RSK_175: The following samples had air bubble(s) larger than recommended by EPA (greater than 6 mm in diameter): TMW-11-202410 (680-257090-8), ITMW-19-202410 (680-257090-23) and DUP-10 (680-257090-24).

Method RSK_175: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds

(VOCs). However, the pH at the time of analysis was 4: ITMW-19-202410 (680-257090-23) and DUP-10 (680-257090-24).

Method RSK_175: Surrogate recovery for the following samples were outside control limits: MW-25R-202410 (680-257090-1), MW-84-202410 (680-257090-12), ITMW-19-202410 (680-257090-23) and DUP-10 (680-257090-24). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

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

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: TMW-11-202410 (680-257090-8) and MW-215-202410 (680-257090-20). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-861048 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

General Chemistry
Method 3500_F+2_D_Calc: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-859615 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2_Nitrite: The instrument blank for analytical batches 680-859199 and 680-859635 contained nitrite greater than the method detection limit (MDL) and were not reanalyzed because result is less than the reporting limit (RL). The data have been qualified and reported.

Method 353.2_Nitrite: The method blank for analytical batch 680-859199 contained nitrite above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL) OR practical quantitation limit (PQL).

Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batche 680-859635 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2_Nitrite: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to the parent was analyzed within hold but MS/MSD was missed in original run. Results were confirmed : MW-84-202410 (680-257090-12), MW-84-202410 (680-257090-12[MS]) and MW-84-202410 (680-257090-12[MSD]).

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-860256 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-25R-202410 — Lab Sample ID: 680-257090-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.9		1.0	0.27	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2600		50	13	ug/L	50		8260D	Total/NA
1,1-Dichloroethane	0.66	J	1.0	0.33	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	6.6		1.0	0.33	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.4		1.0	0.35	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	59		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	2600		50	10	ug/L	50		8260D	Total/NA
Vinyl chloride	39		1.0	0.40	ug/L	1		8260D	Total/NA
Methane	99		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	860		25	10	mg/L	25		300.0-1993 R2.1	Total/NA
Iron	0.82		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferric Iron	0.82		0.10	0.10	mg/L	1		SM 3500	Total/NA

Client Sample ID: ITMW-6-202410 — Lab Sample ID: 680-257090-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	1300		10	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: MW-175-202410 — Lab Sample ID: 680-257090-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	93		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-178-202410 — Lab Sample ID: 680-257090-4

No Detections.

Client Sample ID: MW-93-202410 — Lab Sample ID: 680-257090-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29	J	50	13	ug/L	50		8260D	Total/NA
Trichloroethene	4300		50	10	ug/L	50		8260D	Total/NA

Client Sample ID: ITMW-9-202410 — Lab Sample ID: 680-257090-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	75		25	6.3	ug/L	25		8260D	Total/NA
Trichloroethene	3400		25	5.0	ug/L	25		8260D	Total/NA
Methane	15		1.0	0.50	ug/L	1		RSK-175	Total/NA
Chloride	140		5.0	2.0	mg/L	10		300.0-1993 R2.1	Total/NA
Sulfate	32		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Nitrate Nitrite as N	4.6		0.50	0.050	mg/L	5		353.2	Total/NA
Nitrite as N	0.024	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	4.6		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	0.052	J HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA
Dissolved Organic Carbon	1.8		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-58R-202410 — Lab Sample ID: 680-257090-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.3		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	2.1		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	250		2.0	0.40	ug/L	2		8260D	Total/NA
Methane	19		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	8.6	J	20	8.0	mg/L	20		300.0-1993 R2.1	Total/NA
Iron	0.28		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferrous Iron	0.20	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: TMW-11-202410 — Lab Sample ID: 680-257090-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane - DL	1800		100	60	ug/L	20		RSK-175	Total/NA
Chloride	62		2.5	1.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	5.0		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.022	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.063	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Ferric Iron	5.0		0.10	0.10	mg/L	1		SM 3500	Total/NA
Dissolved Organic Carbon	2.5		1.0	0.50	mg/L	1		5310 B-2011	Dissolved

Client Sample ID: ITMW-5-202410 — Lab Sample ID: 680-257090-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19	J	25	6.3	ug/L	25		8260D	Total/NA
Trichloroethene	2300		25	5.0	ug/L	25		8260D	Total/NA

Client Sample ID: MW-95-202410 — Lab Sample ID: 680-257090-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	870		200	50	ug/L	200		8260D	Total/NA
Trichloroethene	33000		200	40	ug/L	200		8260D	Total/NA
Ethane	1.2	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane	3.6	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	120		20	8.0	mg/L	20		300.0-1993 R2.1	Total/NA
Ferrous Iron	0.14	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-84-202410 — Lab Sample ID: 680-257090-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19		10	3.7	ug/L	1		8260D	Total/NA
Bromochloromethane	1.4		1.0	0.34	ug/L	1		8260D	Total/NA
Bromoform	2.0		1.0	0.59	ug/L	1		8260D	Total/NA
Trichloroethene	2.3		1.0	0.20	ug/L	1		8260D	Total/NA
Methane	4.6	J F1	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	1800	F1	100	40	mg/L	100		300.0-1993 R2.1	Total/NA
Iron	0.098	J	0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	1.5	F1	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.087	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.059	J H F1	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	1.4		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-57R-202410 — Lab Sample ID: 680-257090-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	77		10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	9.5		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.7		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	180		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: ITMW-18-202410 — Lab Sample ID: 680-257090-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		20	5.0	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	44		20	6.8	ug/L	20		8260D	Total/NA
Trichloroethene	2100		20	4.0	ug/L	20		8260D	Total/NA

Client Sample ID: TMW-24-202410 — Lab Sample ID: 680-257090-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.9		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	360		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: MW-87-202410 — Lab Sample ID: 680-257090-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	62		20	7.4	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	15		2.0	0.50	ug/L	2		8260D	Total/NA
1,1-Dichloroethene	2.7		2.0	0.66	ug/L	2		8260D	Total/NA
Tetrachloroethene	3.5		2.0	0.70	ug/L	2		8260D	Total/NA
Trichloroethene	280		2.0	0.40	ug/L	2		8260D	Total/NA
Sulfate	10		5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	0.22		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	1.4		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.026	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	1.4		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferric Iron	0.22		0.10	0.10	mg/L	1		SM 3500	Total/NA

Client Sample ID: ITMW-10-202410 — Lab Sample ID: 680-257090-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.8		2.0	0.50	ug/L	2		8260D	Total/NA
Trichloroethene	390		2.0	0.40	ug/L	2		8260D	Total/NA

Client Sample ID: RW-1-202410 — Lab Sample ID: 680-257090-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	42000		500	130	ug/L	500		8260D	Total/NA
Trichloroethene	71000		500	100	ug/L	500		8260D	Total/NA

Client Sample ID: MW-215-202410 — Lab Sample ID: 680-257090-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45		10	2.5	ug/L	10		8260D	Total/NA
1,1-Dichloroethene	10		10	3.3	ug/L	10		8260D	Total/NA
Trichloroethene	950		10	2.0	ug/L	10		8260D	Total/NA
Ethane	2.2	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	3.6	J	5.0	1.0	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-215-202410 (Continued) — Lab Sample ID: 680-257090-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	4.7	J	5.0	2.0	mg/L	5		300.0-1993 R2.1	Total/NA
Iron	0.69		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.56		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.23	B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.33		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA

Client Sample ID: EB-05-202410 — Lab Sample ID: 680-257090-21

No Detections.

Client Sample ID: EB-06-202410 — Lab Sample ID: 680-257090-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	10	3.7	ug/L	1		8260D	Total/NA

Client Sample ID: ITMW-19-202410 — Lab Sample ID: 680-257090-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1100		50	19	ug/L	5		8260D	Total/NA
Benzene	41		5.0	1.4	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	340		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	610		5.0	1.0	ug/L	5		8260D	Total/NA
Sulfate	1600		100	40	mg/L	100		300.0-1993 R2.1	Total/NA
Iron	120		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.033	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.47	B	0.10	0.010	mg/L	1		353.2	Total/NA
Ferrous Iron	37	HF	1.0	0.25	mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: DUP-10-202410 — Lab Sample ID: 680-257090-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1700		50	19	ug/L	5		8260D	Total/NA
Benzene	35		5.0	1.4	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	520		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	440		5.0	1.0	ug/L	5		8260D	Total/NA
Sulfate	1700		100	40	mg/L	100		300.0-1993 R2.1	Total/NA
Iron	120		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.034	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.40	B	0.10	0.010	mg/L	1		353.2	Total/NA
Ferrous Iron	44	HF	1.0	0.25	mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: TB-09-202410 — Lab Sample ID: 680-257090-25

No Detections.

Client Sample ID: TB-10-202410 — Lab Sample ID: 680-257090-26

No Detections.

Client Sample ID: MW-38-202410 — Lab Sample ID: 680-257090-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		10	2.5	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-38-202410 (Continued)
Lab Sample ID: 680-257090-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	720		10	2.0	ug/L	10		8260D	Total/NA
Vinyl chloride	220		10	4.0	ug/L	10		8260D	Total/NA
Ethylene	4.7	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane	3.0	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	93		10	4.0	mg/L	10		300.0-1993 R2.1	Total/NA
Iron	3.0		0.10	0.020	mg/L	1		6010D	Total Recoverable
Ferric Iron	0.10		0.10	0.10	mg/L	1		SM 3500	Total/NA
Ferrous Iron	2.9	HF	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: TB-11-202410
Lab Sample ID: 680-257090-28

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-25R-202410

Date Collected: 10/11/24 07:40
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 14:15	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 14:15	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 14:15	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 14:15	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 14:15	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 14:15	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 14:15	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 14:15	1
Chloroform	**2.9**		1.0	0.27	ug/L			10/25/24 14:15	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 14:15	1
cis-1,2-Dichloroethene	**2600**		50	13	ug/L			10/25/24 15:32	50
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 14:15	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 14:15	1
1,1-Dichloroethane	**0.66**	**J**	1.0	0.33	ug/L			10/25/24 14:15	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 14:15	1
1,1-Dichloroethene	**6.6**		1.0	0.33	ug/L			10/25/24 14:15	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 14:15	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 14:15	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 14:15	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 14:15	1
Tetrachloroethene	**1.4**		1.0	0.35	ug/L			10/25/24 14:15	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 14:15	1
trans-1,2-Dichloroethene	**59**		1.0	0.34	ug/L			10/25/24 14:15	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 14:15	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 14:15	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 14:15	1
Trichloroethene	**2600**		50	10	ug/L			10/25/24 15:32	50
Vinyl chloride	**39**		1.0	0.40	ug/L			10/25/24 14:15	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/25/24 14:15*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/25/24 15:32*	*50*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/25/24 14:15*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/24 15:32*	*50*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/25/24 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/25/24 15:32*	*50*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/25/24 14:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/25/24 15:32*	*50*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:14	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:14	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:14	1
Methane	**99**		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*31*	*S1-*	*43 - 133*	*10/18/24 10:56*	*10/18/24 19:14*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-25R-202410
Lab Sample ID: 680-257090-1
Date Collected: 10/11/24 07:40
Matrix: Water
Date Received: 10/12/24 10:41

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**860**		25	10	mg/L			10/22/24 18:26	25

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.82**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	**0.82**		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:51	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client Sample ID: ITMW-6-202410
Lab Sample ID: 680-257090-2
Date Collected: 10/11/24 08:45
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		50	19	ug/L			10/24/24 23:53	5
Benzene	<1.4		5.0	1.4	ug/L			10/24/24 23:53	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/24/24 23:53	5
Bromoform	<3.0		5.0	3.0	ug/L			10/24/24 23:53	5
Bromomethane	<19		25	19	ug/L			10/24/24 23:53	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/24/24 23:53	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/24/24 23:53	5
Chloroethane	<23		25	23	ug/L			10/24/24 23:53	5
Chloroform	<1.4		5.0	1.4	ug/L			10/24/24 23:53	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/24/24 23:53	5
cis-1,2-Dichloroethene	**12**		5.0	1.3	ug/L			10/24/24 23:53	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/24/24 23:53	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/24/24 23:53	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/24/24 23:53	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/24/24 23:53	5
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/24/24 23:53	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/24/24 23:53	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/24/24 23:53	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/24/24 23:53	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/24/24 23:53	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/24/24 23:53	5
Toluene	<1.3		5.0	1.3	ug/L			10/24/24 23:53	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/24/24 23:53	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/24/24 23:53	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/24/24 23:53	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/24/24 23:53	5
Trichloroethene	**1300**		10	2.0	ug/L			10/25/24 15:53	10
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/24/24 23:53	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/24/24 23:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/24 23:53*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/25/24 15:53*	*10*

Client Sample ID: ITMW-6-202410
Lab Sample ID: 680-257090-2
Date Collected: 10/11/24 08:45
Matrix: Water
Date Received: 10/12/24 10:41

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/24/24 23:53*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/25/24 15:53*	*10*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/24/24 23:53*	*5*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/25/24 15:53*	*10*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/24/24 23:53*	*5*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/25/24 15:53*	*10*

Client Sample ID: MW-175-202410
Lab Sample ID: 680-257090-3
Date Collected: 10/11/24 08:05
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 14:37	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 14:37	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 14:37	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 14:37	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 14:37	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 14:37	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 14:37	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 14:37	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 14:37	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 14:37	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			10/25/24 16:38	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 14:37	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 14:37	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 14:37	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 14:37	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 14:37	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 14:37	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 14:37	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 14:37	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 14:37	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 14:37	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 14:37	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 14:37	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 14:37	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 14:37	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 14:37	1
Trichloroethene	**93**		1.0	0.20	ug/L			10/25/24 16:38	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 14:37	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/25/24 14:37*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/25/24 16:38*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/25/24 14:37*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/24 16:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/25/24 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/25/24 16:38*	*1*

Client Sample ID: MW-175-202410
Lab Sample ID: 680-257090-3
Date Collected: 10/11/24 08:05
Matrix: Water
Date Received: 10/12/24 10:41

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/25/24 14:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/25/24 16:38*	*1*

Client Sample ID: MW-178-202410
Lab Sample ID: 680-257090-4
Date Collected: 10/11/24 08:45
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 19:43	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 19:43	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 19:43	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 19:43	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 19:43	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 19:43	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 19:43	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 19:43	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 19:43	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 19:43	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 19:43	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 19:43	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 19:43	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 19:43	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 19:43	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 19:43	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 19:43	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 19:43	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 19:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 19:43	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 19:43	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 19:43	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 19:43	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 19:43	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 19:43	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 19:43	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 19:43	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 19:43	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/24/24 19:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 19:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 19:43*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-93-202410
Lab Sample ID: 680-257090-5
Date Collected: 10/11/24 09:25
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<190		500	190	ug/L			10/24/24 21:54	50
Benzene	<14		50	14	ug/L			10/24/24 21:54	50
Bromochloromethane	<17		50	17	ug/L			10/24/24 21:54	50
Bromoform	<30		50	30	ug/L			10/24/24 21:54	50
Bromomethane	<190		250	190	ug/L			10/24/24 21:54	50
Carbon tetrachloride	<15		50	15	ug/L			10/24/24 21:54	50
Chlorobenzene	<7.5		50	7.5	ug/L			10/24/24 21:54	50
Chloroethane	<230		250	230	ug/L			10/24/24 21:54	50
Chloroform	<14		50	14	ug/L			10/24/24 21:54	50
Chloromethane	<27		50	27	ug/L			10/24/24 21:54	50
cis-1,2-Dichloroethene	**29**	**J**	50	13	ug/L			10/24/24 21:54	50
cis-1,3-Dichloropropene	<13		50	13	ug/L			10/24/24 21:54	50
Dibromochloromethane	<20		50	20	ug/L			10/24/24 21:54	50
1,1-Dichloroethane	<17		50	17	ug/L			10/24/24 21:54	50
1,2-Dichloroethane	<13		50	13	ug/L			10/24/24 21:54	50
1,1-Dichloroethene	<17		50	17	ug/L			10/24/24 21:54	50
1,3-Dichloropropene, Total	<24		100	24	ug/L			10/24/24 21:54	50
Ethylbenzene	<10		50	10	ug/L			10/24/24 21:54	50
4-Methyl-2-pentanone (MIBK)	<140		500	140	ug/L			10/24/24 21:54	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/L			10/24/24 21:54	50
Tetrachloroethene	<18		50	18	ug/L			10/24/24 21:54	50
Toluene	<13		50	13	ug/L			10/24/24 21:54	50
trans-1,2-Dichloroethene	<17		50	17	ug/L			10/24/24 21:54	50
trans-1,3-Dichloropropene	<12		50	12	ug/L			10/24/24 21:54	50
1,1,1-Trichloroethane	<11		50	11	ug/L			10/24/24 21:54	50
1,1,2-Trichloroethane	<16		50	16	ug/L			10/24/24 21:54	50
Trichloroethene	**4300**		50	10	ug/L			10/24/24 21:54	50
Vinyl chloride	<20		50	20	ug/L			10/24/24 21:54	50
Xylenes, Total	<12		50	12	ug/L			10/24/24 21:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/24 21:54*	*50*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 21:54*	*50*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 21:54*	*50*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/24/24 21:54*	*50*

Client Sample ID: ITMW-9-202410
Lab Sample ID: 680-257090-6
Date Collected: 10/11/24 09:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<93		250	93	ug/L			10/24/24 22:18	25
Benzene	<6.8		25	6.8	ug/L			10/24/24 22:18	25
Bromochloromethane	<8.5		25	8.5	ug/L			10/24/24 22:18	25
Bromoform	<15		25	15	ug/L			10/24/24 22:18	25
Bromomethane	<93		130	93	ug/L			10/24/24 22:18	25
Carbon tetrachloride	<7.5		25	7.5	ug/L			10/24/24 22:18	25
Chlorobenzene	<3.8		25	3.8	ug/L			10/24/24 22:18	25
Chloroethane	<120		130	120	ug/L			10/24/24 22:18	25

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: ITMW-9-202410
Lab Sample ID: 680-257090-6
Date Collected: 10/11/24 09:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<6.8		25	6.8	ug/L			10/24/24 22:18	25
Chloromethane	<14		25	14	ug/L			10/24/24 22:18	25
cis-1,2-Dichloroethene	**75**		25	6.3	ug/L			10/24/24 22:18	25
cis-1,3-Dichloropropene	<6.5		25	6.5	ug/L			10/24/24 22:18	25
Dibromochloromethane	<9.8		25	9.8	ug/L			10/24/24 22:18	25
1,1-Dichloroethane	<8.3		25	8.3	ug/L			10/24/24 22:18	25
1,2-Dichloroethane	<6.3		25	6.3	ug/L			10/24/24 22:18	25
1,1-Dichloroethene	<8.3		25	8.3	ug/L			10/24/24 22:18	25
1,3-Dichloropropene, Total	<12		50	12	ug/L			10/24/24 22:18	25
Ethylbenzene	<5.0		25	5.0	ug/L			10/24/24 22:18	25
4-Methyl-2-pentanone (MIBK)	<68		250	68	ug/L			10/24/24 22:18	25
1,1,2,2-Tetrachloroethane	<10		25	10	ug/L			10/24/24 22:18	25
Tetrachloroethene	<8.8		25	8.8	ug/L			10/24/24 22:18	25
Toluene	<6.3		25	6.3	ug/L			10/24/24 22:18	25
trans-1,2-Dichloroethene	<8.5		25	8.5	ug/L			10/24/24 22:18	25
trans-1,3-Dichloropropene	<5.8		25	5.8	ug/L			10/24/24 22:18	25
1,1,1-Trichloroethane	<5.3		25	5.3	ug/L			10/24/24 22:18	25
1,1,2-Trichloroethane	<8.0		25	8.0	ug/L			10/24/24 22:18	25
Trichloroethene	**3400**		25	5.0	ug/L			10/24/24 22:18	25
Vinyl chloride	<10		25	10	ug/L			10/24/24 22:18	25
Xylenes, Total	<5.8		25	5.8	ug/L			10/24/24 22:18	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/24/24 22:18*	*25*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 22:18*	*25*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/24/24 22:18*	*25*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/24/24 22:18*	*25*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**15**		1.0	0.50	ug/L			10/22/24 10:41	1
Ethane	<0.75		1.0	0.75	ug/L			10/22/24 10:41	1
Ethylene	<0.55		1.0	0.55	ug/L			10/22/24 10:41	1

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.0	2.0	mg/L			10/22/24 18:33	10
Sulfate	**32**		10	4.0	mg/L			10/22/24 18:33	10

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Client Sample ID: ITMW-9-202410
Lab Sample ID: 680-257090-6
Date Collected: 10/11/24 09:00
Matrix: Water
Date Received: 10/12/24 10:41

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**4.6**		0.50	0.050	mg/L			10/19/24 05:53	5
Nitrite as N (EPA 353.2)	**0.024**	**J B**	0.10	0.010	mg/L			10/12/24 15:07	1
Total Organic Carbon (SM 5310 B-2011)	**1.3**		1.0	0.50	mg/L			10/16/24 04:46	1
Nitrate as N (SM Nitrate by calc)	**4.6**		0.10	0.010	mg/L			10/21/24 14:26	1
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	**0.052**	**J HF**	0.10	0.025	mg/L			10/15/24 12:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**1.8**		1.0	0.50	mg/L			10/16/24 08:07	1

Client Sample ID: MW-58R-202410
Lab Sample ID: 680-257090-7
Date Collected: 10/11/24 09:20
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 00:25	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 00:25	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 00:25	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 00:25	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 00:25	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 00:25	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 00:25	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 00:25	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 00:25	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 00:25	1
cis-1,2-Dichloroethene	**6.3**		1.0	0.25	ug/L			10/25/24 00:25	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 00:25	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 00:25	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 00:25	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 00:25	1
1,1-Dichloroethene	**2.1**		1.0	0.33	ug/L			10/25/24 00:25	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 00:25	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 00:25	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 00:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 00:25	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 00:25	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 00:25	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 00:25	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 00:25	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 00:25	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 00:25	1
Trichloroethene	**250**		2.0	0.40	ug/L			10/25/24 16:16	2
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 00:25	1

Client Sample ID: MW-58R-202410
Lab Sample ID: 680-257090-7
Date Collected: 10/11/24 09:20
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*10/25/24 00:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/25/24 16:16*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/25/24 00:25*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/25/24 16:16*	*2*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/25/24 00:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/25/24 16:16*	*2*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/24 00:25*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/24 16:16*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:32	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:32	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:32	1
Methane	**19**		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*59*		*43 - 133*	*10/18/24 10:56*	*10/18/24 19:32*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**8.6**	**J**	20	8.0	mg/L			10/22/24 18:39	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.28**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	**0.20**	**HF**	0.10	0.025	mg/L			10/15/24 12:35	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client Sample ID: TMW-11-202410
Lab Sample ID: 680-257090-8
Date Collected: 10/11/24 10:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 20:05	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 20:05	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 20:05	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 20:05	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 20:05	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 20:05	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 20:05	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 20:05	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 20:05	1

Client Sample ID: TMW-11-202410 — **Lab Sample ID: 680-257090-8**
Date Collected: 10/11/24 10:00 — **Matrix: Water**
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 20:05	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 20:05	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 20:05	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 20:05	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 20:05	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 20:05	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 20:05	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 20:05	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 20:05	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 20:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 20:05	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 20:05	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 20:05	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 20:05	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 20:05	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 20:05	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 20:05	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 20:05	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 20:05	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 20:05*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/24/24 20:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/24/24 20:05*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/24/24 20:05*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:50	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:50	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*56*		*43 - 133*	*10/18/24 10:56*	*10/18/24 19:50*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1800**		100	60	ug/L		10/21/24 10:35	10/21/24 16:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*94*		*43 - 133*	*10/21/24 10:35*	*10/21/24 16:27*	*20*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62**		2.5	1.0	mg/L			10/23/24 13:55	5
Sulfate	<2.0		5.0	2.0	mg/L			10/23/24 13:55	5

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1

Client Sample ID: TMW-11-202410
Lab Sample ID: 680-257090-8
Date Collected: 10/11/24 10:00
Matrix: Water
Date Received: 10/12/24 10:41

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.0**		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.022**	**J**	0.10	0.010	mg/L			10/19/24 07:43	1
Nitrite as N (EPA 353.2)	**0.063**	**J B**	0.10	0.010	mg/L			10/12/24 15:10	1
Total Organic Carbon (SM 5310 B-2011)	**2.4**		1.0	0.50	mg/L			10/16/24 05:20	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/21/24 14:26	1
Ferric Iron (SM 3500)	**5.0**		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:27	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310 B-2011)	**2.5**		1.0	0.50	mg/L			10/16/24 08:42	1

Client Sample ID: ITMW-5-202410
Lab Sample ID: 680-257090-10
Date Collected: 10/11/24 10:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<93		250	93	ug/L			10/24/24 22:41	25
Benzene	<6.8		25	6.8	ug/L			10/24/24 22:41	25
Bromochloromethane	<8.5		25	8.5	ug/L			10/24/24 22:41	25
Bromoform	<15		25	15	ug/L			10/24/24 22:41	25
Bromomethane	<93		130	93	ug/L			10/24/24 22:41	25
Carbon tetrachloride	<7.5		25	7.5	ug/L			10/24/24 22:41	25
Chlorobenzene	<3.8		25	3.8	ug/L			10/24/24 22:41	25
Chloroethane	<120		130	120	ug/L			10/24/24 22:41	25
Chloroform	<6.8		25	6.8	ug/L			10/24/24 22:41	25
Chloromethane	<14		25	14	ug/L			10/24/24 22:41	25
cis-1,2-Dichloroethene	**19**	**J**	25	6.3	ug/L			10/24/24 22:41	25
cis-1,3-Dichloropropene	<6.5		25	6.5	ug/L			10/24/24 22:41	25
Dibromochloromethane	<9.8		25	9.8	ug/L			10/24/24 22:41	25
1,1-Dichloroethane	<8.3		25	8.3	ug/L			10/24/24 22:41	25
1,2-Dichloroethane	<6.3		25	6.3	ug/L			10/24/24 22:41	25
1,1-Dichloroethene	<8.3		25	8.3	ug/L			10/24/24 22:41	25
1,3-Dichloropropene, Total	<12		50	12	ug/L			10/24/24 22:41	25

Client Sample ID: ITMW-5-202410
Lab Sample ID: 680-257090-10
Date Collected: 10/11/24 10:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<5.0		25	5.0	ug/L			10/24/24 22:41	25
4-Methyl-2-pentanone (MIBK)	<68		250	68	ug/L			10/24/24 22:41	25
1,1,2,2-Tetrachloroethane	<10		25	10	ug/L			10/24/24 22:41	25
Tetrachloroethene	<8.8		25	8.8	ug/L			10/24/24 22:41	25
Toluene	<6.3		25	6.3	ug/L			10/24/24 22:41	25
trans-1,2-Dichloroethene	<8.5		25	8.5	ug/L			10/24/24 22:41	25
trans-1,3-Dichloropropene	<5.8		25	5.8	ug/L			10/24/24 22:41	25
1,1,1-Trichloroethane	<5.3		25	5.3	ug/L			10/24/24 22:41	25
1,1,2-Trichloroethane	<8.0		25	8.0	ug/L			10/24/24 22:41	25
Trichloroethene	**2300**		25	5.0	ug/L			10/24/24 22:41	25
Vinyl chloride	<10		25	10	ug/L			10/24/24 22:41	25
Xylenes, Total	<5.8		25	5.8	ug/L			10/24/24 22:41	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/24/24 22:41*	*25*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 22:41*	*25*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/24/24 22:41*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 22:41*	*25*

Client Sample ID: MW-95-202410
Lab Sample ID: 680-257090-11
Date Collected: 10/11/24 10:24
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<740		2000	740	ug/L			10/24/24 21:30	200
Benzene	<54		200	54	ug/L			10/24/24 21:30	200
Bromochloromethane	<68		200	68	ug/L			10/24/24 21:30	200
Bromoform	<120		200	120	ug/L			10/24/24 21:30	200
Bromomethane	<740		1000	740	ug/L			10/24/24 21:30	200
Carbon tetrachloride	<60		200	60	ug/L			10/24/24 21:30	200
Chlorobenzene	<30		200	30	ug/L			10/24/24 21:30	200
Chloroethane	<920		1000	920	ug/L			10/24/24 21:30	200
Chloroform	<54		200	54	ug/L			10/24/24 21:30	200
Chloromethane	<110		200	110	ug/L			10/24/24 21:30	200
cis-1,2-Dichloroethene	**870**		200	50	ug/L			10/24/24 21:30	200
cis-1,3-Dichloropropene	<52		200	52	ug/L			10/24/24 21:30	200
Dibromochloromethane	<78		200	78	ug/L			10/24/24 21:30	200
1,1-Dichloroethane	<66		200	66	ug/L			10/24/24 21:30	200
1,2-Dichloroethane	<50		200	50	ug/L			10/24/24 21:30	200
1,1-Dichloroethene	<66		200	66	ug/L			10/24/24 21:30	200
1,3-Dichloropropene, Total	<96		400	96	ug/L			10/24/24 21:30	200
Ethylbenzene	<40		200	40	ug/L			10/24/24 21:30	200
4-Methyl-2-pentanone (MIBK)	<540		2000	540	ug/L			10/24/24 21:30	200
1,1,2,2-Tetrachloroethane	<80		200	80	ug/L			10/24/24 21:30	200
Tetrachloroethene	<70		200	70	ug/L			10/24/24 21:30	200
Toluene	<50		200	50	ug/L			10/24/24 21:30	200
trans-1,2-Dichloroethene	<68		200	68	ug/L			10/24/24 21:30	200
trans-1,3-Dichloropropene	<46		200	46	ug/L			10/24/24 21:30	200
1,1,1-Trichloroethane	<42		200	42	ug/L			10/24/24 21:30	200

Client Sample ID: MW-95-202410
Lab Sample ID: 680-257090-11
Date Collected: 10/11/24 10:24
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<64		200	64	ug/L			10/24/24 21:30	200
Trichloroethene	**33000**		200	40	ug/L			10/24/24 21:30	200
Vinyl chloride	<80		200	80	ug/L			10/24/24 21:30	200
Xylenes, Total	<46		200	46	ug/L			10/24/24 21:30	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/24/24 21:30*	*200*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 21:30*	*200*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/24/24 21:30*	*200*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 21:30*	*200*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:08	1
Ethane	**1.2**	**J**	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:08	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:08	1
Methane	**3.6**	**J**	5.0	3.0	ug/L		10/18/24 10:56	10/18/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*53*		*43 - 133*	*10/18/24 10:56*	*10/18/24 20:08*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**120**		20	8.0	mg/L			10/23/24 14:21	20

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	<0.10		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	**0.14**	**HF**	0.10	0.025	mg/L			10/15/24 12:45	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client Sample ID: MW-84-202410
Lab Sample ID: 680-257090-12
Date Collected: 10/11/24 10:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**19**		10	3.7	ug/L			10/25/24 15:08	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 15:08	1
Bromochloromethane	**1.4**		1.0	0.34	ug/L			10/25/24 15:08	1
Bromoform	**2.0**		1.0	0.59	ug/L			10/25/24 15:08	1
Bromomethane	<3.7	F2	5.0	3.7	ug/L			10/25/24 15:08	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 15:08	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 15:08	1
Chloroethane	<4.6	F2	5.0	4.6	ug/L			10/25/24 15:08	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 15:08	1
Chloromethane	<0.54	F1 F2	1.0	0.54	ug/L			10/25/24 15:08	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-84-202410

Date Collected: 10/11/24 10:00
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/24 15:08	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 15:08	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 15:08	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 15:08	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 15:08	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 15:08	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 15:08	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 15:08	1
4-Methyl-2-pentanone (MIBK)	<2.7	F1	10	2.7	ug/L			10/25/24 15:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 15:08	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 15:08	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 15:08	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 15:08	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 15:08	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 15:08	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 15:08	1
Trichloroethene	**2.3**		1.0	0.20	ug/L			10/25/24 15:08	1
Vinyl chloride	<0.40	F1 F2	1.0	0.40	ug/L			10/25/24 15:08	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/25/24 15:08*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/25/24 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/25/24 15:08*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/25/24 15:08*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0	F1	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:27	1
Ethane	<1.0	F1	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:27	1
Ethylene	<1.0	F1	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 20:27	1
Methane	**4.6**	**J F1**	5.0	3.0	ug/L		10/18/24 10:56	10/18/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*0*	*S1-*	*43 - 133*	*10/18/24 10:56*	*10/18/24 20:27*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1800**	**F1**	100	40	mg/L			10/24/24 17:54	100

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.098**	**J**	0.10	0.020	mg/L		10/15/24 04:38	10/15/24 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**1.5**	**F1**	0.10	0.010	mg/L			10/19/24 07:38	1
Nitrite as N (EPA 353.2)	**0.087**	**J B**	0.10	0.010	mg/L			10/12/24 15:11	1
Nitrite as N (EPA 353.2)	**0.059**	**J H F1**	0.10	0.010	mg/L			10/15/24 22:44	1
Nitrate as N (SM Nitrate by calc)	**1.4**		0.10	0.010	mg/L			10/21/24 14:26	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF F1	0.10	0.025	mg/L			10/15/24 12:20	1

Client Sample ID: MW-57R-202410
Lab Sample ID: 680-257090-14
Date Collected: 10/11/24 11:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**77**		10	3.7	ug/L			10/25/24 17:16	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 17:16	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 17:16	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 17:16	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 17:16	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 17:16	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 17:16	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 17:16	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 17:16	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 17:16	1
cis-1,2-Dichloroethene	**9.5**		1.0	0.25	ug/L			10/25/24 17:16	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 17:16	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 17:16	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 17:16	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 17:16	1
1,1-Dichloroethene	**1.7**		1.0	0.33	ug/L			10/25/24 17:16	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 17:16	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 17:16	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 17:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 17:16	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 17:16	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 17:16	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 17:16	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 17:16	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 17:16	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 17:16	1
Trichloroethene	**180**		5.0	1.0	ug/L			10/25/24 17:59	5
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 17:16	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/25/24 17:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/25/24 17:59*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/24 17:16*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/25/24 17:59*	*5*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/25/24 17:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/25/24 17:59*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/25/24 17:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/25/24 17:59*	*5*

Client Sample ID: ITMW-18-202410
Lab Sample ID: 680-257090-15
Date Collected: 10/11/24 11:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<74		200	74	ug/L			10/25/24 16:05	20
Benzene	<5.4		20	5.4	ug/L			10/25/24 16:05	20
Bromochloromethane	<6.8		20	6.8	ug/L			10/25/24 16:05	20
Bromoform	<12		20	12	ug/L			10/25/24 16:05	20

Client Sample ID: ITMW-18-202410
Lab Sample ID: 680-257090-15
Date Collected: 10/11/24 11:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<74		100	74	ug/L			10/25/24 16:05	20
Carbon tetrachloride	<6.0		20	6.0	ug/L			10/25/24 16:05	20
Chlorobenzene	<3.0		20	3.0	ug/L			10/25/24 16:05	20
Chloroethane	<92		100	92	ug/L			10/25/24 16:05	20
Chloroform	<5.4		20	5.4	ug/L			10/25/24 16:05	20
Chloromethane	<11		20	11	ug/L			10/25/24 16:05	20
cis-1,2-Dichloroethene	**240**		20	5.0	ug/L			10/25/24 16:05	20
cis-1,3-Dichloropropene	<5.2		20	5.2	ug/L			10/25/24 16:05	20
Dibromochloromethane	<7.8		20	7.8	ug/L			10/25/24 16:05	20
1,1-Dichloroethane	<6.6		20	6.6	ug/L			10/25/24 16:05	20
1,2-Dichloroethane	<5.0		20	5.0	ug/L			10/25/24 16:05	20
1,1-Dichloroethene	<6.6		20	6.6	ug/L			10/25/24 16:05	20
1,3-Dichloropropene, Total	<9.6		40	9.6	ug/L			10/25/24 16:05	20
Ethylbenzene	<4.0		20	4.0	ug/L			10/25/24 16:05	20
4-Methyl-2-pentanone (MIBK)	<54		200	54	ug/L			10/25/24 16:05	20
1,1,2,2-Tetrachloroethane	<8.0		20	8.0	ug/L			10/25/24 16:05	20
Tetrachloroethene	<7.0		20	7.0	ug/L			10/25/24 16:05	20
Toluene	<5.0		20	5.0	ug/L			10/25/24 16:05	20
trans-1,2-Dichloroethene	**44**		20	6.8	ug/L			10/25/24 16:05	20
trans-1,3-Dichloropropene	<4.6		20	4.6	ug/L			10/25/24 16:05	20
1,1,1-Trichloroethane	<4.2		20	4.2	ug/L			10/25/24 16:05	20
1,1,2-Trichloroethane	<6.4		20	6.4	ug/L			10/25/24 16:05	20
Trichloroethene	**2100**		20	4.0	ug/L			10/25/24 16:05	20
Vinyl chloride	<8.0		20	8.0	ug/L			10/25/24 16:05	20
Xylenes, Total	<4.6		20	4.6	ug/L			10/25/24 16:05	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/25/24 16:05*	*20*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/25/24 16:05*	*20*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/25/24 16:05*	*20*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/25/24 16:05*	*20*

Client Sample ID: TMW-24-202410
Lab Sample ID: 680-257090-16
Date Collected: 10/11/24 11:15
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		50	19	ug/L			10/25/24 00:41	5
Benzene	<1.4		5.0	1.4	ug/L			10/25/24 00:41	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/25/24 00:41	5
Bromoform	<3.0		5.0	3.0	ug/L			10/25/24 00:41	5
Bromomethane	<19		25	19	ug/L			10/25/24 00:41	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/25/24 00:41	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/25/24 00:41	5
Chloroethane	<23		25	23	ug/L			10/25/24 00:41	5
Chloroform	<1.4		5.0	1.4	ug/L			10/25/24 00:41	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/25/24 00:41	5
cis-1,2-Dichloroethene	**9.9**		5.0	1.3	ug/L			10/25/24 00:41	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/25/24 00:41	5

Client Sample ID: TMW-24-202410
Lab Sample ID: 680-257090-16
Date Collected: 10/11/24 11:15
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/25/24 00:41	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/25/24 00:41	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/25/24 00:41	5
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 00:41	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/25/24 00:41	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/25/24 00:41	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/25/24 00:41	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/25/24 00:41	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/25/24 00:41	5
Toluene	<1.3		5.0	1.3	ug/L			10/25/24 00:41	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 00:41	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/25/24 00:41	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/25/24 00:41	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/25/24 00:41	5
Trichloroethene	**360**		5.0	1.0	ug/L			10/25/24 00:41	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/25/24 00:41	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/25/24 00:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/25/24 00:41*	*5*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/25/24 00:41*	*5*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/25/24 00:41*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/24 00:41*	*5*

Client Sample ID: MW-87-202410
Lab Sample ID: 680-257090-17
Date Collected: 10/11/24 11:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**62**		20	7.4	ug/L			10/25/24 00:48	2
Benzene	<0.54		2.0	0.54	ug/L			10/25/24 00:48	2
Bromochloromethane	<0.68		2.0	0.68	ug/L			10/25/24 00:48	2
Bromoform	<1.2		2.0	1.2	ug/L			10/25/24 00:48	2
Bromomethane	<7.4		10	7.4	ug/L			10/25/24 00:48	2
Carbon tetrachloride	<0.60		2.0	0.60	ug/L			10/25/24 00:48	2
Chlorobenzene	<0.30		2.0	0.30	ug/L			10/25/24 00:48	2
Chloroethane	<9.2		10	9.2	ug/L			10/25/24 00:48	2
Chloroform	<0.54		2.0	0.54	ug/L			10/25/24 00:48	2
Chloromethane	<1.1		2.0	1.1	ug/L			10/25/24 00:48	2
cis-1,2-Dichloroethene	**15**		2.0	0.50	ug/L			10/25/24 00:48	2
cis-1,3-Dichloropropene	<0.52		2.0	0.52	ug/L			10/25/24 00:48	2
Dibromochloromethane	<0.78		2.0	0.78	ug/L			10/25/24 00:48	2
1,1-Dichloroethane	<0.66		2.0	0.66	ug/L			10/25/24 00:48	2
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			10/25/24 00:48	2
1,1-Dichloroethene	**2.7**		2.0	0.66	ug/L			10/25/24 00:48	2
1,3-Dichloropropene, Total	<0.96		4.0	0.96	ug/L			10/25/24 00:48	2
Ethylbenzene	<0.40		2.0	0.40	ug/L			10/25/24 00:48	2
4-Methyl-2-pentanone (MIBK)	<5.4		20	5.4	ug/L			10/25/24 00:48	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			10/25/24 00:48	2

Client Sample ID: MW-87-202410
Lab Sample ID: 680-257090-17
Date Collected: 10/11/24 11:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**3.5**		2.0	0.70	ug/L			10/25/24 00:48	2
Toluene	<0.50		2.0	0.50	ug/L			10/25/24 00:48	2
trans-1,2-Dichloroethene	<0.68		2.0	0.68	ug/L			10/25/24 00:48	2
trans-1,3-Dichloropropene	<0.46		2.0	0.46	ug/L			10/25/24 00:48	2
1,1,1-Trichloroethane	<0.42		2.0	0.42	ug/L			10/25/24 00:48	2
1,1,2-Trichloroethane	<0.64		2.0	0.64	ug/L			10/25/24 00:48	2
Trichloroethene	**280**		2.0	0.40	ug/L			10/25/24 00:48	2
Vinyl chloride	<0.80		2.0	0.80	ug/L			10/25/24 00:48	2
Xylenes, Total	<0.46		2.0	0.46	ug/L			10/25/24 00:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*10/25/24 00:48*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/25/24 00:48*	*2*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/25/24 00:48*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/25/24 00:48*	*2*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:40	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:40	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:40	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*51*		*43 - 133*	*10/18/24 10:56*	*10/18/24 21:40*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**10**		5.0	2.0	mg/L			10/23/24 14:28	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.22**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**1.4**		0.10	0.010	mg/L			10/18/24 23:45	1
Nitrite as N (EPA 353.2)	**0.026**	**J B**	0.10	0.010	mg/L			10/12/24 15:12	1
Nitrate as N (SM Nitrate by calc)	**1.4**		0.10	0.010	mg/L			10/21/24 14:26	1
Ferric Iron (SM 3500)	**0.22**		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:51	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client Sample ID: ITMW-10-202410
Lab Sample ID: 680-257090-18
Date Collected: 10/11/24 12:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.4		20	7.4	ug/L			10/25/24 01:12	2
Benzene	<0.54		2.0	0.54	ug/L			10/25/24 01:12	2

Client Sample ID: ITMW-10-202410
Lab Sample ID: 680-257090-18
Date Collected: 10/11/24 12:50
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<0.68		2.0	0.68	ug/L			10/25/24 01:12	2
Bromoform	<1.2		2.0	1.2	ug/L			10/25/24 01:12	2
Bromomethane	<7.4		10	7.4	ug/L			10/25/24 01:12	2
Carbon tetrachloride	<0.60		2.0	0.60	ug/L			10/25/24 01:12	2
Chlorobenzene	<0.30		2.0	0.30	ug/L			10/25/24 01:12	2
Chloroethane	<9.2		10	9.2	ug/L			10/25/24 01:12	2
Chloroform	<0.54		2.0	0.54	ug/L			10/25/24 01:12	2
Chloromethane	<1.1		2.0	1.1	ug/L			10/25/24 01:12	2
cis-1,2-Dichloroethene	**4.8**		2.0	0.50	ug/L			10/25/24 01:12	2
cis-1,3-Dichloropropene	<0.52		2.0	0.52	ug/L			10/25/24 01:12	2
Dibromochloromethane	<0.78		2.0	0.78	ug/L			10/25/24 01:12	2
1,1-Dichloroethane	<0.66		2.0	0.66	ug/L			10/25/24 01:12	2
1,2-Dichloroethane	<0.50		2.0	0.50	ug/L			10/25/24 01:12	2
1,1-Dichloroethene	<0.66		2.0	0.66	ug/L			10/25/24 01:12	2
1,3-Dichloropropene, Total	<0.96		4.0	0.96	ug/L			10/25/24 01:12	2
Ethylbenzene	<0.40		2.0	0.40	ug/L			10/25/24 01:12	2
4-Methyl-2-pentanone (MIBK)	<5.4		20	5.4	ug/L			10/25/24 01:12	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			10/25/24 01:12	2
Tetrachloroethene	<0.70		2.0	0.70	ug/L			10/25/24 01:12	2
Toluene	<0.50		2.0	0.50	ug/L			10/25/24 01:12	2
trans-1,2-Dichloroethene	<0.68		2.0	0.68	ug/L			10/25/24 01:12	2
trans-1,3-Dichloropropene	<0.46		2.0	0.46	ug/L			10/25/24 01:12	2
1,1,1-Trichloroethane	<0.42		2.0	0.42	ug/L			10/25/24 01:12	2
1,1,2-Trichloroethane	<0.64		2.0	0.64	ug/L			10/25/24 01:12	2
Trichloroethene	**390**		2.0	0.40	ug/L			10/25/24 01:12	2
Vinyl chloride	<0.80		2.0	0.80	ug/L			10/25/24 01:12	2
Xylenes, Total	<0.46		2.0	0.46	ug/L			10/25/24 01:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*10/25/24 01:12*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/25/24 01:12*	*2*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/25/24 01:12*	*2*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/25/24 01:12*	*2*

Client Sample ID: RW-1-202410
Lab Sample ID: 680-257090-19
Date Collected: 10/11/24 12:10
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1900		5000	1900	ug/L			10/24/24 21:09	500
Benzene	<140		500	140	ug/L			10/24/24 21:09	500
Bromochloromethane	<170		500	170	ug/L			10/24/24 21:09	500
Bromoform	<300		500	300	ug/L			10/24/24 21:09	500
Bromomethane	<1900		2500	1900	ug/L			10/24/24 21:09	500
Carbon tetrachloride	<150		500	150	ug/L			10/24/24 21:09	500
Chlorobenzene	<75		500	75	ug/L			10/24/24 21:09	500
Chloroethane	<2300		2500	2300	ug/L			10/24/24 21:09	500
Chloroform	<140		500	140	ug/L			10/24/24 21:09	500
Chloromethane	<270		500	270	ug/L			10/24/24 21:09	500

Client Sample ID: RW-1-202410
Lab Sample ID: 680-257090-19
Date Collected: 10/11/24 12:10
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**42000**		500	130	ug/L			10/24/24 21:09	500
cis-1,3-Dichloropropene	<130		500	130	ug/L			10/24/24 21:09	500
Dibromochloromethane	<200		500	200	ug/L			10/24/24 21:09	500
1,1-Dichloroethane	<170		500	170	ug/L			10/24/24 21:09	500
1,2-Dichloroethane	<130		500	130	ug/L			10/24/24 21:09	500
1,1-Dichloroethene	<170		500	170	ug/L			10/24/24 21:09	500
1,3-Dichloropropene, Total	<240		1000	240	ug/L			10/24/24 21:09	500
Ethylbenzene	<100		500	100	ug/L			10/24/24 21:09	500
4-Methyl-2-pentanone (MIBK)	<1400		5000	1400	ug/L			10/24/24 21:09	500
1,1,2,2-Tetrachloroethane	<200		500	200	ug/L			10/24/24 21:09	500
Tetrachloroethene	<180		500	180	ug/L			10/24/24 21:09	500
Toluene	<130		500	130	ug/L			10/24/24 21:09	500
trans-1,2-Dichloroethene	<170		500	170	ug/L			10/24/24 21:09	500
trans-1,3-Dichloropropene	<120		500	120	ug/L			10/24/24 21:09	500
1,1,1-Trichloroethane	<110		500	110	ug/L			10/24/24 21:09	500
1,1,2-Trichloroethane	<160		500	160	ug/L			10/24/24 21:09	500
Trichloroethene	**71000**		500	100	ug/L			10/24/24 21:09	500
Vinyl chloride	<200		500	200	ug/L			10/24/24 21:09	500
Xylenes, Total	<120		500	120	ug/L			10/24/24 21:09	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/24/24 21:09*	*500*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/24/24 21:09*	*500*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 21:09*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/24/24 21:09*	*500*

Client Sample ID: MW-215-202410
Lab Sample ID: 680-257090-20
Date Collected: 10/11/24 13:40
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<37		100	37	ug/L			10/24/24 23:05	10
Benzene	<2.7		10	2.7	ug/L			10/24/24 23:05	10
Bromochloromethane	<3.4		10	3.4	ug/L			10/24/24 23:05	10
Bromoform	<5.9		10	5.9	ug/L			10/24/24 23:05	10
Bromomethane	<37		50	37	ug/L			10/24/24 23:05	10
Carbon tetrachloride	<3.0		10	3.0	ug/L			10/24/24 23:05	10
Chlorobenzene	<1.5		10	1.5	ug/L			10/24/24 23:05	10
Chloroethane	<46		50	46	ug/L			10/24/24 23:05	10
Chloroform	<2.7		10	2.7	ug/L			10/24/24 23:05	10
Chloromethane	<5.4		10	5.4	ug/L			10/24/24 23:05	10
cis-1,2-Dichloroethene	**45**		10	2.5	ug/L			10/24/24 23:05	10
cis-1,3-Dichloropropene	<2.6		10	2.6	ug/L			10/24/24 23:05	10
Dibromochloromethane	<3.9		10	3.9	ug/L			10/24/24 23:05	10
1,1-Dichloroethane	<3.3		10	3.3	ug/L			10/24/24 23:05	10
1,2-Dichloroethane	<2.5		10	2.5	ug/L			10/24/24 23:05	10
1,1-Dichloroethene	**10**		10	3.3	ug/L			10/24/24 23:05	10
1,3-Dichloropropene, Total	<4.8		20	4.8	ug/L			10/24/24 23:05	10
Ethylbenzene	<2.0		10	2.0	ug/L			10/24/24 23:05	10

Client Sample ID: MW-215-202410
Lab Sample ID: 680-257090-20
Date Collected: 10/11/24 13:40
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<27		100	27	ug/L			10/24/24 23:05	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			10/24/24 23:05	10
Tetrachloroethene	<3.5		10	3.5	ug/L			10/24/24 23:05	10
Toluene	<2.5		10	2.5	ug/L			10/24/24 23:05	10
trans-1,2-Dichloroethene	<3.4		10	3.4	ug/L			10/24/24 23:05	10
trans-1,3-Dichloropropene	<2.3		10	2.3	ug/L			10/24/24 23:05	10
1,1,1-Trichloroethane	<2.1		10	2.1	ug/L			10/24/24 23:05	10
1,1,2-Trichloroethane	<3.2		10	3.2	ug/L			10/24/24 23:05	10
Trichloroethene	**950**		10	2.0	ug/L			10/24/24 23:05	10
Vinyl chloride	<4.0		10	4.0	ug/L			10/24/24 23:05	10
Xylenes, Total	<2.3		10	2.3	ug/L			10/24/24 23:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/24 23:05*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/24 23:05*	*10*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/24/24 23:05*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/24/24 23:05*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:58	1
Ethane	**2.2**	**J**	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:58	1
Ethylene	**3.6**	**J**	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 21:58	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*61*		*43 - 133*	*10/18/24 10:56*	*10/18/24 21:58*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.7**	**J**	5.0	2.0	mg/L			10/23/24 14:34	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.69**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.56**		0.10	0.010	mg/L			10/18/24 23:46	1
Nitrite as N (EPA 353.2)	**0.23**	**B**	0.10	0.010	mg/L			10/12/24 15:13	1
Nitrate as N (SM Nitrate by calc)	**0.33**		0.10	0.010	mg/L			10/21/24 14:26	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			10/15/24 12:35	1

Client Sample ID: EB-05-202410
Lab Sample ID: 680-257090-21
Date Collected: 10/11/24 15:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 20:26	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 20:26	1

Client Sample ID: EB-05-202410
Lab Sample ID: 680-257090-21
Date Collected: 10/11/24 15:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 20:26	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 20:26	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 20:26	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 20:26	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 20:26	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 20:26	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 20:26	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 20:26	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 20:26	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 20:26	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 20:26	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 20:26	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 20:26	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 20:26	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 20:26	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 20:26	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 20:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 20:26	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 20:26	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 20:26	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 20:26	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 20:26	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 20:26	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 20:26	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 20:26	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 20:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 20:26*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/24/24 20:26*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 20:26*	*1*

Client Sample ID: EB-06-202410
Lab Sample ID: 680-257090-22
Date Collected: 10/11/24 15:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**6.8**	**J**	10	3.7	ug/L			10/25/24 13:23	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 20:48	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 20:48	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 20:48	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 20:48	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 20:48	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 20:48	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 20:48	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 20:48	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 20:48	1

Client Sample ID: EB-06-202410
Lab Sample ID: 680-257090-22
Date Collected: 10/11/24 15:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 20:48	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 20:48	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 20:48	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 20:48	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 20:48	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 20:48	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 20:48	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 20:48	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 20:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 20:48	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 20:48	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 20:48	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 20:48	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 20:48	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 20:48	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 20:48	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 20:48	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 20:48	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 20:48*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/25/24 13:23*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/24/24 20:48*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/25/24 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 20:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/25/24 13:23*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/24/24 20:48*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/25/24 13:23*	*1*

Client Sample ID: ITMW-19-202410
Lab Sample ID: 680-257090-23
Date Collected: 10/11/24 00:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1100**		50	19	ug/L			10/25/24 01:04	5
Benzene	**41**		5.0	1.4	ug/L			10/25/24 01:04	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/25/24 01:04	5
Bromoform	<3.0		5.0	3.0	ug/L			10/25/24 01:04	5
Bromomethane	<19		25	19	ug/L			10/25/24 01:04	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/25/24 01:04	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/25/24 01:04	5
Chloroethane	<23		25	23	ug/L			10/25/24 01:04	5
Chloroform	<1.4		5.0	1.4	ug/L			10/25/24 01:04	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/25/24 01:04	5
cis-1,2-Dichloroethene	**340**		5.0	1.3	ug/L			10/25/24 01:04	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/25/24 01:04	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/25/24 01:04	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/25/24 01:04	5

Client Sample ID: ITMW-19-202410
Lab Sample ID: 680-257090-23

Date Collected: 10/11/24 00:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/25/24 01:04	5
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 01:04	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/25/24 01:04	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/25/24 01:04	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/25/24 01:04	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/25/24 01:04	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/25/24 01:04	5
Toluene	<1.3		5.0	1.3	ug/L			10/25/24 01:04	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 01:04	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/25/24 01:04	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/25/24 01:04	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/25/24 01:04	5
Trichloroethene	**610**		5.0	1.0	ug/L			10/25/24 01:04	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/25/24 01:04	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/25/24 01:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/25/24 01:04*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/25/24 01:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/25/24 01:04*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/25/24 01:04*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:16	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:16	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:16	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*37*	*S1-*	*43 - 133*	*10/18/24 10:56*	*10/18/24 22:16*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1600**		100	40	mg/L			10/24/24 18:13	100

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**120**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.033**	**J**	0.10	0.010	mg/L			10/18/24 23:43	1
Nitrite as N (EPA 353.2)	**0.47**	**B**	0.10	0.010	mg/L			10/12/24 15:14	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/21/24 14:26	1
Ferrous Iron (SM 3500 FE D)	**37**	**HF**	1.0	0.25	mg/L			10/15/24 12:58	10

Client Sample ID: DUP-10-202410
Lab Sample ID: 680-257090-24
Date Collected: 10/11/24 00:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1700**		50	19	ug/L			10/25/24 01:28	5
Benzene	**35**		5.0	1.4	ug/L			10/25/24 01:28	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			10/25/24 01:28	5
Bromoform	<3.0		5.0	3.0	ug/L			10/25/24 01:28	5
Bromomethane	<19		25	19	ug/L			10/25/24 01:28	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			10/25/24 01:28	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			10/25/24 01:28	5
Chloroethane	<23		25	23	ug/L			10/25/24 01:28	5
Chloroform	<1.4		5.0	1.4	ug/L			10/25/24 01:28	5
Chloromethane	<2.7		5.0	2.7	ug/L			10/25/24 01:28	5
cis-1,2-Dichloroethene	**520**		5.0	1.3	ug/L			10/25/24 01:28	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			10/25/24 01:28	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			10/25/24 01:28	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			10/25/24 01:28	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			10/25/24 01:28	5
1,1-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 01:28	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			10/25/24 01:28	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			10/25/24 01:28	5
4-Methyl-2-pentanone (MIBK)	<14		50	14	ug/L			10/25/24 01:28	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			10/25/24 01:28	5
Tetrachloroethene	<1.8		5.0	1.8	ug/L			10/25/24 01:28	5
Toluene	<1.3		5.0	1.3	ug/L			10/25/24 01:28	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			10/25/24 01:28	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			10/25/24 01:28	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			10/25/24 01:28	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			10/25/24 01:28	5
Trichloroethene	**440**		5.0	1.0	ug/L			10/25/24 01:28	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			10/25/24 01:28	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			10/25/24 01:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/25/24 01:28*	*5*
Dibromofluoromethane (Surr)	*148*	*S1+*	*70 - 130*		*10/25/24 01:28*	*5*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+*	*60 - 124*		*10/25/24 01:28*	*5*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/25/24 01:28*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:34	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:34	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:34	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*37*	*S1-*	*43 - 133*	*10/18/24 10:56*	*10/18/24 22:34*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1700**		100	40	mg/L			10/24/24 18:20	100

Client Sample ID: DUP-10-202410
Lab Sample ID: 680-257090-24
Date Collected: 10/11/24 00:00
Matrix: Water
Date Received: 10/12/24 10:41

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	120		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 01:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.034	J	0.10	0.010	mg/L			10/19/24 07:45	1
Nitrite as N (EPA 353.2)	0.40	B	0.10	0.010	mg/L			10/12/24 15:15	1
Nitrate as N (SM Nitrate by calc)	<0.010		0.10	0.010	mg/L			10/21/24 14:26	1
Ferrous Iron (SM 3500 FE D)	44	HF	1.0	0.25	mg/L			10/15/24 12:58	10

Client Sample ID: TB-09-202410
Lab Sample ID: 680-257090-25
Date Collected: 10/11/24 08:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 19:00	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 19:00	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 19:00	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 19:00	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 19:00	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 19:00	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 19:00	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 19:00	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 19:00	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 19:00	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 19:00	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 19:00	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 19:00	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 19:00	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 19:00	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 19:00	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 19:00	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 19:00	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 19:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 19:00	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 19:00	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 19:00	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 19:00	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 19:00	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 19:00	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 19:00	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 19:00	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 19:00	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/24/24 19:00*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 19:00*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/24 19:00*	*1*

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-10-202410
Lab Sample ID: 680-257090-26
Date Collected: 10/11/24 08:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 19:22	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 19:22	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 19:22	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 19:22	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 19:22	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 19:22	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 19:22	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 19:22	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 19:22	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 19:22	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 19:22	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 19:22	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 19:22	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 19:22	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 19:22	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 19:22	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 19:22	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 19:22	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 19:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 19:22	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 19:22	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 19:22	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 19:22	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 19:22	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 19:22	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 19:22	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 19:22	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 19:22	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/24/24 19:22*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/24/24 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 19:22*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/24/24 19:22*	*1*

Client Sample ID: MW-38-202410
Lab Sample ID: 680-257090-27
Date Collected: 10/11/24 14:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<37		100	37	ug/L			10/24/24 23:29	10
Benzene	<2.7		10	2.7	ug/L			10/24/24 23:29	10
Bromochloromethane	<3.4		10	3.4	ug/L			10/24/24 23:29	10
Bromoform	<5.9		10	5.9	ug/L			10/24/24 23:29	10
Bromomethane	<37		50	37	ug/L			10/24/24 23:29	10
Carbon tetrachloride	<3.0		10	3.0	ug/L			10/24/24 23:29	10
Chlorobenzene	<1.5		10	1.5	ug/L			10/24/24 23:29	10
Chloroethane	<46		50	46	ug/L			10/24/24 23:29	10

Client Sample ID: MW-38-202410
Lab Sample ID: 680-257090-27
Date Collected: 10/11/24 14:00
Matrix: Water
Date Received: 10/12/24 10:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<2.7		10	2.7	ug/L			10/24/24 23:29	10
Chloromethane	<5.4		10	5.4	ug/L			10/24/24 23:29	10
cis-1,2-Dichloroethene	**310**		10	2.5	ug/L			10/24/24 23:29	10
cis-1,3-Dichloropropene	<2.6		10	2.6	ug/L			10/24/24 23:29	10
Dibromochloromethane	<3.9		10	3.9	ug/L			10/24/24 23:29	10
1,1-Dichloroethane	<3.3		10	3.3	ug/L			10/24/24 23:29	10
1,2-Dichloroethane	<2.5		10	2.5	ug/L			10/24/24 23:29	10
1,1-Dichloroethene	<3.3		10	3.3	ug/L			10/24/24 23:29	10
1,3-Dichloropropene, Total	<4.8		20	4.8	ug/L			10/24/24 23:29	10
Ethylbenzene	<2.0		10	2.0	ug/L			10/24/24 23:29	10
4-Methyl-2-pentanone (MIBK)	<27		100	27	ug/L			10/24/24 23:29	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			10/24/24 23:29	10
Tetrachloroethene	<3.5		10	3.5	ug/L			10/24/24 23:29	10
Toluene	<2.5		10	2.5	ug/L			10/24/24 23:29	10
trans-1,2-Dichloroethene	<3.4		10	3.4	ug/L			10/24/24 23:29	10
trans-1,3-Dichloropropene	<2.3		10	2.3	ug/L			10/24/24 23:29	10
1,1,1-Trichloroethane	<2.1		10	2.1	ug/L			10/24/24 23:29	10
1,1,2-Trichloroethane	<3.2		10	3.2	ug/L			10/24/24 23:29	10
Trichloroethene	**720**		10	2.0	ug/L			10/24/24 23:29	10
Vinyl chloride	**220**		10	4.0	ug/L			10/24/24 23:29	10
Xylenes, Total	<2.3		10	2.3	ug/L			10/24/24 23:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/24/24 23:29*	*10*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/24/24 23:29*	*10*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 23:29*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/24 23:29*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:52	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:52	1
Ethylene	**4.7**	**J**	5.0	1.0	ug/L		10/18/24 10:56	10/18/24 22:52	1
Methane	**3.0**	**J**	5.0	3.0	ug/L		10/18/24 10:56	10/18/24 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*58*		*43 - 133*	*10/18/24 10:56*	*10/18/24 22:52*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**93**		10	4.0	mg/L			10/23/24 15:13	10

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.0**		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 01:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferric Iron (SM 3500)	**0.10**		0.10	0.10	mg/L			10/24/24 16:11	1
Ferrous Iron (SM 3500 FE D)	**2.9**	**HF**	0.10	0.025	mg/L			10/15/24 12:27	1
Sulfide (SM 4500 S2 D)	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: TB-11-202410
Date Collected: 10/11/24 08:00
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 13:10	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 13:10	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 13:10	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 13:10	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 13:10	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 13:10	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 13:10	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 13:10	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 13:10	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 13:10	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/24 13:10	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 13:10	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 13:10	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 13:10	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 13:10	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 13:10	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 13:10	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 13:10	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 13:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 13:10	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 13:10	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 13:10	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 13:10	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 13:10	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 13:10	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 13:10	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/25/24 13:10	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 13:10	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/25/24 13:10*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/25/24 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/25/24 13:10*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/25/24 13:10*	*1*

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

Lab Sample ID: MB 680-861105/9
Matrix: Water
Analysis Batch: 861105

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 18:47	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 18:47	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 18:47	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 18:47	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 18:47	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 18:47	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 18:47	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 18:47	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 18:47	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 18:47	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 18:47	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 18:47	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 18:47	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 18:47	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 18:47	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 18:47	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 18:47	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 18:47	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 18:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 18:47	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 18:47	1
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 18:47	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 18:47	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 18:47	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 18:47	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 18:47	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 18:47	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 18:47	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 18:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*10/24/24 18:47*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/24/24 18:47*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/24/24 18:47*	*1*

Lab Sample ID: LCS 680-861105/4
Matrix: Water
Analysis Batch: 861105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	244		ug/L		98	67 - 120
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromochloromethane	50.0	47.5		ug/L		95	70 - 130
Bromoform	50.0	45.0		ug/L		90	69 - 129
Bromomethane	50.0	44.0		ug/L		88	28 - 192
Carbon tetrachloride	50.0	47.5		ug/L		95	70 - 130
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130

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

Lab Sample ID: LCS 680-861105/4
Matrix: Water
Analysis Batch: 861105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	44.1		ug/L		88	31 - 213
Chloroform	50.0	50.2		ug/L		100	70 - 130
Chloromethane	50.0	42.7		ug/L		85	59 - 127
cis-1,2-Dichloroethene	50.0	45.5		ug/L		91	70 - 130
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Dibromochloromethane	50.0	49.0		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	51.3		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
1,3-Dichloropropene, Total	100	99.4		ug/L		99	70 - 130
Ethylbenzene	50.0	53.4		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	250	279		ug/L		112	68 - 120
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	70 - 130
Tetrachloroethene	50.0	49.9		ug/L		100	70 - 130
Toluene	50.0	53.4		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	48.3		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
Trichloroethene	50.0	52.1		ug/L		104	70 - 130
Vinyl chloride	50.0	45.4		ug/L		91	66 - 129
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-861105/5
Matrix: Water
Analysis Batch: 861105

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	250	249		ug/L		99	67 - 120	2	30
Benzene	50.0	51.4		ug/L		103	70 - 130	1	30
Bromochloromethane	50.0	47.8		ug/L		96	70 - 130	1	30
Bromoform	50.0	46.6		ug/L		93	69 - 129	4	30
Bromomethane	50.0	44.6		ug/L		89	28 - 192	1	30
Carbon tetrachloride	50.0	49.7		ug/L		99	70 - 130	5	30
Chlorobenzene	50.0	51.8		ug/L		104	70 - 130	1	30
Chloroethane	50.0	44.1		ug/L		88	31 - 213	0	30
Chloroform	50.0	50.2		ug/L		100	70 - 130	0	30
Chloromethane	50.0	44.3		ug/L		89	59 - 127	4	30
cis-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	70 - 130	0	20
Dibromochloromethane	50.0	49.8		ug/L		100	70 - 130	2	30
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130	1	30

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

Lab Sample ID: LCSD 680-861105/5
Matrix: Water
Analysis Batch: 861105

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	49.2		ug/L		98	70 - 130	1	50
1,1-Dichloroethene			50.0	52.3		ug/L		105	70 - 130	3	20
1,3-Dichloropropene, Total			100	99.1		ug/L		99	70 - 130	0	30
Ethylbenzene			50.0	54.8		ug/L		110	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)			250	281		ug/L		113	68 - 120	1	30
1,1,2,2-Tetrachloroethane			50.0	51.7		ug/L		103	70 - 130	0	30
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130	4	30
Toluene			50.0	53.8		ug/L		108	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	48.1		ug/L		96	70 - 130	0	30
1,1,1-Trichloroethane			50.0	50.2		ug/L		100	70 - 130	3	30
1,1,2-Trichloroethane			50.0	52.7		ug/L		105	70 - 130	2	30
Trichloroethene			50.0	53.1		ug/L		106	70 - 130	2	30
Vinyl chloride			50.0	46.7		ug/L		93	66 - 129	3	30
Xylenes, Total			100	110		ug/L		110	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-861110/9
Matrix: Water
Analysis Batch: 861110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/24/24 18:39	1
Benzene	<0.27		1.0	0.27	ug/L			10/24/24 18:39	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/24/24 18:39	1
Bromoform	<0.59		1.0	0.59	ug/L			10/24/24 18:39	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/24/24 18:39	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/24/24 18:39	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/24/24 18:39	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/24/24 18:39	1
Chloroform	<0.27		1.0	0.27	ug/L			10/24/24 18:39	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/24/24 18:39	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/24 18:39	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/24/24 18:39	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/24/24 18:39	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/24/24 18:39	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/24/24 18:39	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/24/24 18:39	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/24/24 18:39	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/24/24 18:39	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/24/24 18:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/24/24 18:39	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/24/24 18:39	1

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

Lab Sample ID: MB 680-861110/9
Matrix: Water
Analysis Batch: 861110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/24/24 18:39	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/24/24 18:39	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/24/24 18:39	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/24/24 18:39	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/24/24 18:39	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/24/24 18:39	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/24/24 18:39	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/24/24 18:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/24/24 18:39*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/24 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/24 18:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/24/24 18:39*	*1*

Lab Sample ID: LCS 680-861110/4
Matrix: Water
Analysis Batch: 861110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	273		ug/L		109	67 - 120
Benzene	50.0	50.5		ug/L		101	70 - 130
Bromochloromethane	50.0	51.4		ug/L		103	70 - 130
Bromoform	50.0	46.9		ug/L		94	69 - 129
Bromomethane	50.0	43.0		ug/L		86	28 - 192
Carbon tetrachloride	50.0	50.9		ug/L		102	70 - 130
Chlorobenzene	50.0	52.2		ug/L		104	70 - 130
Chloroethane	50.0	38.5		ug/L		77	31 - 213
Chloroform	50.0	51.0		ug/L		102	70 - 130
Chloromethane	50.0	46.1		ug/L		92	59 - 127
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130
Dibromochloromethane	50.0	47.0		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	48.0		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
1,3-Dichloropropene, Total	100	98.7		ug/L		99	70 - 130
Ethylbenzene	50.0	53.8		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	250	250		ug/L		100	68 - 120
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/L		105	70 - 130
Tetrachloroethene	50.0	51.7		ug/L		103	70 - 130
Toluene	50.0	52.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 130
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	70 - 130
Trichloroethene	50.0	49.6		ug/L		99	70 - 130
Vinyl chloride	50.0	47.6		ug/L		95	66 - 129

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

Lab Sample ID: LCS 680-861110/4
Matrix: Water
Analysis Batch: 861110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-861110/5
Matrix: Water
Analysis Batch: 861110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	277		ug/L		111	67 - 120	1	30
Benzene			50.0	52.2		ug/L		104	70 - 130	3	30
Bromochloromethane			50.0	51.7		ug/L		103	70 - 130	1	30
Bromoform			50.0	47.8		ug/L		96	69 - 129	2	30
Bromomethane			50.0	43.2		ug/L		86	28 - 192	0	30
Carbon tetrachloride			50.0	51.3		ug/L		103	70 - 130	1	30
Chlorobenzene			50.0	52.6		ug/L		105	70 - 130	1	30
Chloroethane			50.0	38.2		ug/L		76	31 - 213	1	30
Chloroform			50.0	51.6		ug/L		103	70 - 130	1	30
Chloromethane			50.0	46.0		ug/L		92	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	52.4		ug/L		105	70 - 130	1	20
Dibromochloromethane			50.0	47.4		ug/L		95	70 - 130	1	30
1,1-Dichloroethane			50.0	50.5		ug/L		101	70 - 130	0	30
1,2-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	4	50
1,1-Dichloroethene			50.0	50.1		ug/L		100	70 - 130	0	20
1,3-Dichloropropene, Total			100	99.9		ug/L		100	70 - 130	1	30
Ethylbenzene			50.0	53.5		ug/L		107	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)			250	250		ug/L		100	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	53.2		ug/L		106	70 - 130	1	30
Tetrachloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
Toluene			50.0	52.9		ug/L		106	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.8		ug/L		104	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.4		ug/L		95	70 - 130	1	30
1,1,1-Trichloroethane			50.0	49.0		ug/L		98	70 - 130	2	30
1,1,2-Trichloroethane			50.0	49.7		ug/L		99	70 - 130	4	30
Trichloroethene			50.0	49.6		ug/L		99	70 - 130	0	30
Vinyl chloride			50.0	47.3		ug/L		95	66 - 129	1	30
Xylenes, Total			100	110		ug/L		110	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 680-861180/8
Matrix: Water
Analysis Batch: 861180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 12:29	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 12:29	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 12:29	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 12:29	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 12:29	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 12:29	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 12:29	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 12:29	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 12:29	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 12:29	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/24 12:29	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 12:29	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 12:29	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 12:29	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 12:29	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 12:29	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 12:29	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 12:29	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 12:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 12:29	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 12:29	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 12:29	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 12:29	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 12:29	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 12:29	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 12:29	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/25/24 12:29	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 12:29	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/25/24 12:29*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*10/25/24 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/25/24 12:29*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/25/24 12:29*	*1*

Lab Sample ID: LCS 680-861180/4
Matrix: Water
Analysis Batch: 861180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	209		ug/L		83	67 - 120
Benzene	50.0	48.6		ug/L		97	70 - 130
Bromochloromethane	50.0	43.8		ug/L		88	70 - 130
Bromoform	50.0	51.0		ug/L		102	69 - 129
Bromomethane	50.0	58.8		ug/L		118	28 - 192
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 130
Chlorobenzene	50.0	54.2		ug/L		108	70 - 130

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

Lab Sample ID: LCS 680-861180/4
Matrix: Water
Analysis Batch: 861180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	33.0		ug/L		66	31 - 213		
Chloroform			50.0	46.7		ug/L		93	70 - 130		
Chloromethane			50.0	35.6		ug/L		71	59 - 127		
cis-1,2-Dichloroethene			50.0	47.8		ug/L		96	70 - 130		
cis-1,3-Dichloropropene			50.0	47.1		ug/L		94	70 - 130		
Dibromochloromethane			50.0	46.2		ug/L		92	70 - 130		
1,1-Dichloroethane			50.0	45.7		ug/L		91	70 - 130		
1,2-Dichloroethane			50.0	44.7		ug/L		89	70 - 130		
1,1-Dichloroethene			50.0	49.2		ug/L		98	70 - 130		
1,3-Dichloropropene, Total			100	94.8		ug/L		95	70 - 130		
Ethylbenzene			50.0	54.2		ug/L		108	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	208		ug/L		83	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	50.6		ug/L		101	70 - 130		
Tetrachloroethene			50.0	54.2		ug/L		108	70 - 130		
Toluene			50.0	47.9		ug/L		96	70 - 130		
trans-1,2-Dichloroethene			50.0	49.5		ug/L		99	70 - 130		
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130		
1,1,1-Trichloroethane			50.0	49.2		ug/L		98	70 - 130		
1,1,2-Trichloroethane			50.0	45.7		ug/L		91	70 - 130		
Trichloroethene			50.0	51.3		ug/L		103	70 - 130		
Vinyl chloride			50.0	44.4		ug/L		89	66 - 129		
Xylenes, Total			100	110		ug/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-861180/5
Matrix: Water
Analysis Batch: 861180

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	210		ug/L		84	67 - 120	1	30
Benzene			50.0	48.4		ug/L		97	70 - 130	1	30
Bromochloromethane			50.0	42.6		ug/L		85	70 - 130	3	30
Bromoform			50.0	51.2		ug/L		102	69 - 129	0	30
Bromomethane			50.0	57.0		ug/L		114	28 - 192	3	30
Carbon tetrachloride			50.0	52.9		ug/L		106	70 - 130	6	30
Chlorobenzene			50.0	54.0		ug/L		108	70 - 130	0	30
Chloroethane			50.0	30.3		ug/L		61	31 - 213	9	30
Chloroform			50.0	46.4		ug/L		93	70 - 130	1	30
Chloromethane			50.0	35.4		ug/L		71	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	47.5		ug/L		95	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	46.8		ug/L		94	70 - 130	1	20
Dibromochloromethane			50.0	46.2		ug/L		92	70 - 130	0	30
1,1-Dichloroethane			50.0	45.8		ug/L		92	70 - 130	0	30

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

Lab Sample ID: LCSD 680-861180/5
Matrix: Water
Analysis Batch: 861180

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	44.7		ug/L		89	70 - 130	0	50
1,1-Dichloroethene			50.0	50.5		ug/L		101	70 - 130	2	20
1,3-Dichloropropene, Total			100	93.5		ug/L		93	70 - 130	1	30
Ethylbenzene			50.0	55.1		ug/L		110	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			250	208		ug/L		83	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	51.4		ug/L		103	70 - 130	1	30
Tetrachloroethene			50.0	56.4		ug/L		113	70 - 130	4	30
Toluene			50.0	48.0		ug/L		96	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.3		ug/L		103	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	46.7		ug/L		93	70 - 130	2	30
1,1,1-Trichloroethane			50.0	50.4		ug/L		101	70 - 130	2	30
1,1,2-Trichloroethane			50.0	45.1		ug/L		90	70 - 130	1	30
Trichloroethene			50.0	52.1		ug/L		104	70 - 130	1	30
Vinyl chloride			50.0	46.0		ug/L		92	66 - 129	4	30
Xylenes, Total			100	111		ug/L		111	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-861193/9
Matrix: Water
Analysis Batch: 861193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 12:44	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 12:44	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 12:44	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 12:44	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 12:44	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 12:44	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 12:44	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 12:44	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 12:44	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 12:44	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/24 12:44	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 12:44	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 12:44	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 12:44	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 12:44	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 12:44	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 12:44	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 12:44	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 12:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 12:44	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 12:44	1

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

Lab Sample ID: MB 680-861193/9
Matrix: Water
Analysis Batch: 861193

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 12:44	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 12:44	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 12:44	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 12:44	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 12:44	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/25/24 12:44	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 12:44	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*10/25/24 12:44*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/25/24 12:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/25/24 12:44*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/25/24 12:44*	*1*

Lab Sample ID: LCS 680-861193/5
Matrix: Water
Analysis Batch: 861193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	227		ug/L		91	67 - 120
Benzene	50.0	52.5		ug/L		105	70 - 130
Bromochloromethane	50.0	48.9		ug/L		98	70 - 130
Bromoform	50.0	46.3		ug/L		93	69 - 129
Bromomethane	50.0	45.9		ug/L		92	28 - 192
Carbon tetrachloride	50.0	48.4		ug/L		97	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	44.4		ug/L		89	31 - 213
Chloroform	50.0	51.2		ug/L		102	70 - 130
Chloromethane	50.0	47.3		ug/L		95	59 - 127
cis-1,2-Dichloroethene	50.0	46.3		ug/L		93	70 - 130
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	70 - 130
Dibromochloromethane	50.0	50.4		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	51.6		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	53.4		ug/L		107	70 - 130
1,3-Dichloropropene, Total	100	102		ug/L		102	70 - 130
Ethylbenzene	50.0	52.2		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	250	263		ug/L		105	68 - 120
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	70 - 130
Tetrachloroethene	50.0	50.0		ug/L		100	70 - 130
Toluene	50.0	53.3		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	70 - 130
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	53.0		ug/L		106	70 - 130
Vinyl chloride	50.0	46.9		ug/L		94	66 - 129

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

Lab Sample ID: LCS 680-861193/5
Matrix: Water
Analysis Batch: 861193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	106		ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 680-861193/6
Matrix: Water
Analysis Batch: 861193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	231		ug/L		92	67 - 120	2	30
Benzene			50.0	52.2		ug/L		104	70 - 130	1	30
Bromochloromethane			50.0	47.7		ug/L		95	70 - 130	2	30
Bromoform			50.0	46.3		ug/L		93	69 - 129	0	30
Bromomethane			50.0	45.2		ug/L		90	28 - 192	2	30
Carbon tetrachloride			50.0	49.8		ug/L		100	70 - 130	3	30
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
Chloroethane			50.0	45.1		ug/L		90	31 - 213	2	30
Chloroform			50.0	50.6		ug/L		101	70 - 130	1	30
Chloromethane			50.0	46.6		ug/L		93	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	46.0		ug/L		92	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.2		ug/L		102	70 - 130	2	20
Dibromochloromethane			50.0	50.4		ug/L		101	70 - 130	0	30
1,1-Dichloroethane			50.0	51.2		ug/L		102	70 - 130	1	30
1,2-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	1	50
1,1-Dichloroethene			50.0	54.6		ug/L		109	70 - 130	2	20
1,3-Dichloropropene, Total			100	100		ug/L		100	70 - 130	1	30
Ethylbenzene			50.0	53.6		ug/L		107	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)			250	264		ug/L		106	68 - 120	0	30
1,1,2,2-Tetrachloroethane			50.0	50.2		ug/L		100	70 - 130	3	30
Tetrachloroethene			50.0	51.8		ug/L		104	70 - 130	4	30
Toluene			50.0	52.8		ug/L		106	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	52.8		ug/L		106	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	49.0		ug/L		98	70 - 130	1	30
1,1,1-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
1,1,2-Trichloroethane			50.0	52.4		ug/L		105	70 - 130	1	30
Trichloroethene			50.0	52.1		ug/L		104	70 - 130	2	30
Vinyl chloride			50.0	48.0		ug/L		96	66 - 129	2	30
Xylenes, Total			100	106		ug/L		106	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 861193

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	19		250	285		ug/L		106	67 - 120
Benzene	<0.27		50.0	51.4		ug/L		103	70 - 130
Bromochloromethane	1.4		50.0	52.1		ug/L		101	70 - 130
Bromoform	2.0		50.0	51.8		ug/L		100	69 - 129
Bromomethane	<3.7	F2	50.0	32.8		ug/L		66	28 - 192
Carbon tetrachloride	<0.30		50.0	45.5		ug/L		91	70 - 130
Chlorobenzene	<0.15		50.0	50.7		ug/L		101	70 - 130
Chloroethane	<4.6	F2	50.0	34.9		ug/L		70	31 - 213
Chloroform	<0.27		50.0	51.2		ug/L		102	70 - 130
Chloromethane	<0.54	F1 F2	50.0	36.0		ug/L		72	59 - 127
cis-1,2-Dichloroethene	<0.25		50.0	49.3		ug/L		99	70 - 130
cis-1,3-Dichloropropene	<0.26		50.0	52.6		ug/L		105	70 - 130
Dibromochloromethane	<0.39		50.0	56.2		ug/L		112	70 - 130
1,1-Dichloroethane	<0.33		50.0	50.4		ug/L		101	70 - 130
1,2-Dichloroethane	<0.25		50.0	51.3		ug/L		103	70 - 130
1,1-Dichloroethene	<0.33		50.0	49.7		ug/L		99	70 - 130
1,3-Dichloropropene, Total	<0.48		100	104		ug/L		104	70 - 130
Ethylbenzene	<0.20		50.0	51.9		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	<2.7	F1	250	330	F1	ug/L		132	68 - 120
1,1,2,2-Tetrachloroethane	<0.40		50.0	56.1		ug/L		112	70 - 130
Tetrachloroethene	<0.35		50.0	47.8		ug/L		96	70 - 130
Toluene	<0.25		50.0	53.5		ug/L		107	70 - 130
trans-1,2-Dichloroethene	<0.34		50.0	51.5		ug/L		103	70 - 130
trans-1,3-Dichloropropene	<0.23		50.0	51.0		ug/L		102	70 - 130
1,1,1-Trichloroethane	<0.21		50.0	48.2		ug/L		96	70 - 130
1,1,2-Trichloroethane	<0.32		50.0	56.3		ug/L		113	70 - 130
Trichloroethene	2.3		50.0	52.8		ug/L		101	70 - 130
Vinyl chloride	<0.40	F1 F2	50.0	27.4	F1	ug/L		55	66 - 129
Xylenes, Total	<0.23		100	106		ug/L		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 861193

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	19		250	265		ug/L		98	67 - 120	8	30
Benzene	<0.27		50.0	49.1		ug/L		98	70 - 130	5	30
Bromochloromethane	1.4		50.0	46.9		ug/L		91	70 - 130	11	30
Bromoform	2.0		50.0	48.4		ug/L		93	69 - 129	7	30
Bromomethane	<3.7	F2	50.0	51.9	F2	ug/L		104	28 - 192	45	30
Carbon tetrachloride	<0.30		50.0	49.1		ug/L		98	70 - 130	7	30
Chlorobenzene	<0.15		50.0	49.5		ug/L		99	70 - 130	2	30

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

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 861193

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane	<4.6	F2	50.0	58.3	F2	ug/L		117	31 - 213	50	30
Chloroform	<0.27		50.0	47.9		ug/L		96	70 - 130	7	30
Chloromethane	<0.54	F1 F2	50.0	68.8	F1 F2	ug/L		138	59 - 127	63	30
cis-1,2-Dichloroethene	<0.25		50.0	42.5		ug/L		85	70 - 130	15	30
cis-1,3-Dichloropropene	<0.26		50.0	48.6		ug/L		97	70 - 130	8	20
Dibromochloromethane	<0.39		50.0	52.0		ug/L		104	70 - 130	8	30
1,1-Dichloroethane	<0.33		50.0	48.2		ug/L		96	70 - 130	5	30
1,2-Dichloroethane	<0.25		50.0	46.1		ug/L		92	70 - 130	11	50
1,1-Dichloroethene	<0.33		50.0	51.9		ug/L		104	70 - 130	4	20
1,3-Dichloropropene, Total	<0.48		100	95.3		ug/L		95	70 - 130	8	30
Ethylbenzene	<0.20		50.0	52.5		ug/L		105	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	<2.7	F1	250	300		ug/L		120	68 - 120	9	30
1,1,2,2-Tetrachloroethane	<0.40		50.0	52.9		ug/L		106	70 - 130	6	30
Tetrachloroethene	<0.35		50.0	50.3		ug/L		101	70 - 130	5	30
Toluene	<0.25		50.0	52.5		ug/L		105	70 - 130	2	30
trans-1,2-Dichloroethene	<0.34		50.0	49.2		ug/L		98	70 - 130	5	30
trans-1,3-Dichloropropene	<0.23		50.0	46.7		ug/L		93	70 - 130	9	30
1,1,1-Trichloroethane	<0.21		50.0	48.7		ug/L		97	70 - 130	1	30
1,1,2-Trichloroethane	<0.32		50.0	51.9		ug/L		104	70 - 130	8	30
Trichloroethene	2.3		50.0	52.2		ug/L		100	70 - 130	1	30
Vinyl chloride	<0.40	F1 F2	50.0	55.9	F2	ug/L		112	66 - 129	68	30
Xylenes, Total	<0.23		100	105		ug/L		105	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-861197/9
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			10/25/24 12:46	1
Benzene	<0.27		1.0	0.27	ug/L			10/25/24 12:46	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			10/25/24 12:46	1
Bromoform	<0.59		1.0	0.59	ug/L			10/25/24 12:46	1
Bromomethane	<3.7		5.0	3.7	ug/L			10/25/24 12:46	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			10/25/24 12:46	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			10/25/24 12:46	1
Chloroethane	<4.6		5.0	4.6	ug/L			10/25/24 12:46	1
Chloroform	<0.27		1.0	0.27	ug/L			10/25/24 12:46	1
Chloromethane	<0.54		1.0	0.54	ug/L			10/25/24 12:46	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/24 12:46	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			10/25/24 12:46	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			10/25/24 12:46	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			10/25/24 12:46	1

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

Lab Sample ID: MB 680-861197/9
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			10/25/24 12:46	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			10/25/24 12:46	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			10/25/24 12:46	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			10/25/24 12:46	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			10/25/24 12:46	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			10/25/24 12:46	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			10/25/24 12:46	1
Toluene	<0.25		1.0	0.25	ug/L			10/25/24 12:46	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			10/25/24 12:46	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			10/25/24 12:46	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			10/25/24 12:46	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			10/25/24 12:46	1
Trichloroethene	<0.20		1.0	0.20	ug/L			10/25/24 12:46	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			10/25/24 12:46	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			10/25/24 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/25/24 12:46*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/25/24 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/25/24 12:46*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/25/24 12:46*	*1*

Lab Sample ID: LCS 680-861197/5
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	242		ug/L		97	67 - 120
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromochloromethane	50.0	52.1		ug/L		104	70 - 130
Bromoform	50.0	44.1		ug/L		88	69 - 129
Bromomethane	50.0	47.3		ug/L		95	28 - 192
Carbon tetrachloride	50.0	52.1		ug/L		104	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	43.3		ug/L		87	31 - 213
Chloroform	50.0	51.7		ug/L		103	70 - 130
Chloromethane	50.0	50.4		ug/L		101	59 - 127
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Dibromochloromethane	50.0	44.2		ug/L		88	70 - 130
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	48.2		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	52.3		ug/L		105	70 - 130
1,3-Dichloropropene, Total	100	93.6		ug/L		94	70 - 130
Ethylbenzene	50.0	52.4		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	250	211		ug/L		84	68 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 130
Tetrachloroethene	50.0	52.1		ug/L		104	70 - 130

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

Lab Sample ID: LCS 680-861197/5
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			50.0	52.6		ug/L		105	70 - 130		
trans-1,2-Dichloroethene			50.0	52.8		ug/L		106	70 - 130		
trans-1,3-Dichloropropene			50.0	44.3		ug/L		89	70 - 130		
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	70 - 130		
1,1,2-Trichloroethane			50.0	45.0		ug/L		90	70 - 130		
Trichloroethene			50.0	48.5		ug/L		97	70 - 130		
Vinyl chloride			50.0	51.6		ug/L		103	66 - 129		
Xylenes, Total			100	105		ug/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-861197/6
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	246		ug/L		99	67 - 120	2	30
Benzene			50.0	51.4		ug/L		103	70 - 130	1	30
Bromochloromethane			50.0	53.3		ug/L		107	70 - 130	2	30
Bromoform			50.0	44.2		ug/L		88	69 - 129	0	30
Bromomethane			50.0	46.9		ug/L		94	28 - 192	1	30
Carbon tetrachloride			50.0	52.4		ug/L		105	70 - 130	1	30
Chlorobenzene			50.0	50.5		ug/L		101	70 - 130	1	30
Chloroethane			50.0	41.9		ug/L		84	31 - 213	3	30
Chloroform			50.0	51.9		ug/L		104	70 - 130	0	30
Chloromethane			50.0	49.4		ug/L		99	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	53.1		ug/L		106	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	49.7		ug/L		99	70 - 130	1	20
Dibromochloromethane			50.0	45.4		ug/L		91	70 - 130	3	30
1,1-Dichloroethane			50.0	51.9		ug/L		104	70 - 130	1	30
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	3	50
1,1-Dichloroethene			50.0	51.4		ug/L		103	70 - 130	2	20
1,3-Dichloropropene, Total			100	95.4		ug/L		95	70 - 130	2	30
Ethylbenzene			50.0	52.2		ug/L		104	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)			250	216		ug/L		86	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	48.8		ug/L		98	70 - 130	4	30
Tetrachloroethene			50.0	52.2		ug/L		104	70 - 130	0	30
Toluene			50.0	52.6		ug/L		105	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	52.0		ug/L		104	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	45.6		ug/L		91	70 - 130	3	30
1,1,1-Trichloroethane			50.0	50.9		ug/L		102	70 - 130	1	30
1,1,2-Trichloroethane			50.0	46.7		ug/L		93	70 - 130	4	30
Trichloroethene			50.0	48.8		ug/L		98	70 - 130	1	30
Vinyl chloride			50.0	51.4		ug/L		103	66 - 129	0	30

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

Lab Sample ID: LCSD 680-861197/6
Matrix: Water
Analysis Batch: 861197

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	103		ug/L		103	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-564992/1-A
Matrix: Water
Analysis Batch: 564930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 17:43	1
Ethane	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 17:43	1
Ethylene	<1.0		5.0	1.0	ug/L		10/18/24 10:56	10/18/24 17:43	1
Methane	<3.0		5.0	3.0	ug/L		10/18/24 10:56	10/18/24 17:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*112*		*43 - 133*	*10/18/24 10:56*	*10/18/24 17:43*	*1*

Lab Sample ID: LCS 410-564992/2-A
Matrix: Water
Analysis Batch: 564930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene			52.1	57.8		ug/L		111	61 - 148
Ethane			61.7	69.1		ug/L		112	85 - 115
Ethylene			58.3	66.4		ug/L		114	83 - 115
Methane			59.8	67.9		ug/L		114	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*111*		*43 - 133*

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 564930

Client Sample ID: MW-84-202410
Prep Type: Total/NA
Prep Batch: 564992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	<1.0	F1	52.1	30.5	F1	ug/L		59	61 - 148
Ethane	<1.0	F1	61.7	40.5	F1	ug/L		66	85 - 115
Ethylene	<1.0	F1	58.3	11.0	F1	ug/L		19	83 - 115
Methane	4.6	J F1	59.8	44.8	F1	ug/L		67	85 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Propene	*0.1*	*S1-*	*43 - 133*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: 680-257090-12 MSD
Client Sample ID: MW-84-202410
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 564930
Prep Batch: 564992

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene	<1.0	F1	52.1	30.1	F1	ug/L		58	61 - 148	1	30
Ethane	<1.0	F1	61.7	40.5	F1	ug/L		66	85 - 115	0	30
Ethylene	<1.0	F1	58.3	12.4	F1	ug/L		21	83 - 115	12	30
Methane	4.6	J F1	59.8	44.6	F1	ug/L		67	85 - 115	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Propene	*0.2*	*S1-*	*43 - 133*

Lab Sample ID: MB 410-565694/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 565638
Prep Batch: 565694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		10/21/24 10:35	10/21/24 11:55	1
Ethane	<1.0		5.0	1.0	ug/L		10/21/24 10:35	10/21/24 11:55	1
Ethylene	<1.0		5.0	1.0	ug/L		10/21/24 10:35	10/21/24 11:55	1
Methane	<3.0		5.0	3.0	ug/L		10/21/24 10:35	10/21/24 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*98*		*43 - 133*	*10/21/24 10:35*	*10/21/24 11:55*	*1*

Lab Sample ID: LCS 410-565694/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 565638
Prep Batch: 565694

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetylene			52.1	56.4		ug/L		108	61 - 148		
Ethane			61.7	61.8		ug/L		100	85 - 115		
Ethylene			58.3	59.2		ug/L		101	83 - 115		
Methane			59.8	63.1		ug/L		106	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*98*		*43 - 133*

Lab Sample ID: LCSD 410-565694/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 565638
Prep Batch: 565694

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene			52.1	54.6		ug/L		105	61 - 148	3	20
Ethane			61.7	61.8		ug/L		100	85 - 115	0	20
Ethylene			58.3	59.2		ug/L		101	83 - 115	0	20
Methane			59.8	62.9		ug/L		105	85 - 115	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*98*		*43 - 133*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 400-688689/3
Matrix: Water
Analysis Batch: 688689

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.50		1.0	0.50	ug/L			10/22/24 09:12	1
Ethane	<0.75		1.0	0.75	ug/L			10/22/24 09:12	1
Ethylene	<0.55		1.0	0.55	ug/L			10/22/24 09:12	1

Lab Sample ID: LCS 400-688689/4
Matrix: Water
Analysis Batch: 688689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	389	407		ug/L		105	82 - 117
Ethane	736	755		ug/L		103	85 - 116
Ethylene	687	686		ug/L		100	83 - 121

Lab Sample ID: LCSD 400-688689/5
Matrix: Water
Analysis Batch: 688689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	389	419		ug/L		108	82 - 117	3	20
Ethane	736	776		ug/L		105	85 - 116	3	20
Ethylene	687	707		ug/L		103	83 - 121	3	20

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-860696/34
Matrix: Water
Analysis Batch: 860696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/22/24 18:00	1
Sulfate	<0.40		1.0	0.40	mg/L			10/22/24 18:00	1

Lab Sample ID: LCS 680-860696/36
Matrix: Water
Analysis Batch: 860696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.91		mg/L		99	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-860696/37
Matrix: Water
Analysis Batch: 860696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.85		mg/L		99	90 - 110	1	15
Sulfate	10.0	9.95		mg/L		100	90 - 110	1	15

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-860850/2
Matrix: Water
Analysis Batch: 860850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/23/24 11:28	1
Sulfate	<0.40		1.0	0.40	mg/L			10/23/24 11:28	1

Lab Sample ID: LCS 680-860850/3
Matrix: Water
Analysis Batch: 860850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.97		mg/L		100	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-860850/4
Matrix: Water
Analysis Batch: 860850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.91		mg/L		99	90 - 110	1	15
Sulfate	10.0	9.98		mg/L		100	90 - 110	0	15

Lab Sample ID: MB 680-861048/2
Matrix: Water
Analysis Batch: 861048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		0.50	0.20	mg/L			10/24/24 13:07	1
Sulfate	<0.40		1.0	0.40	mg/L			10/24/24 13:07	1

Lab Sample ID: LCS 680-861048/3
Matrix: Water
Analysis Batch: 861048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.63		mg/L		96	90 - 110
Sulfate	10.0	9.67		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-861048/4
Matrix: Water
Analysis Batch: 861048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.60		mg/L		96	90 - 110	0	15
Sulfate	10.0	9.68		mg/L		97	90 - 110	0	15

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 861048

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	200		1000	1250		mg/L		105	80 - 120
Sulfate	1800	F1	1000	3130	F1	mg/L		131	80 - 120

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 861048

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	200		1000	1250		mg/L		104	80 - 120	0	15
Sulfate	1800	F1	1000	3130	F1	mg/L		130	80 - 120	0	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-116637/1
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			10/16/24 16:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			10/16/24 16:00	1
Formic acid	<0.15		0.50	0.15	mg/L			10/16/24 16:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			10/16/24 16:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			10/16/24 16:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			10/16/24 16:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			10/16/24 16:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			10/16/24 16:00	1

Lab Sample ID: LCS 670-116637/3
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	22.3		mg/L		112	60 - 140
Butyric acid	20.0	17.0		mg/L		85	60 - 140
Formic acid	20.0	22.9		mg/L		115	60 - 140
Hexanoic acid	20.0	15.4		mg/L		77	60 - 140
Pentanoic acid	20.0	18.2		mg/L		91	60 - 140
Propionic acid	20.0	16.4		mg/L		82	60 - 140
Pyruvic Acid	20.0	23.8		mg/L		119	60 - 140

Lab Sample ID: LCSD 670-116637/4
Matrix: Water
Analysis Batch: 116637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid	20.0	23.2		mg/L		116	60 - 140	4	25
Butyric acid	20.0	18.6		mg/L		93	60 - 140	9	25
Formic acid	20.0	22.5		mg/L		113	60 - 140	2	25
Hexanoic acid	20.0	15.2		mg/L		76	60 - 140	1	25
Pentanoic acid	20.0	22.8		mg/L		114	60 - 140	22	25
Propionic acid	20.0	17.2		mg/L		86	60 - 140	5	25
Pyruvic Acid	20.0	24.8		mg/L		124	60 - 140	4	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-859404/1-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/15/24 16:38	1

Lab Sample ID: LCS 680-859404/2-A
Matrix: Water
Analysis Batch: 859655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.11		mg/L		102	80 - 120

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 859655

Client Sample ID: MW-84-202410
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.098	J	5.00	4.92		mg/L		96	75 - 125

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 859655

Client Sample ID: MW-84-202410
Prep Type: Total Recoverable
Prep Batch: 859404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.098	J	5.00	5.05		mg/L		99	75 - 125	3	20

Lab Sample ID: MB 680-859406/1-A
Matrix: Water
Analysis Batch: 860153

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		10/15/24 04:38	10/18/24 00:00	1

Lab Sample ID: LCS 680-859406/2-A
Matrix: Water
Analysis Batch: 860153

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 859406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.15		mg/L		103	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-859199/13
Matrix: Water
Analysis Batch: 859199

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0164	J	0.10	0.010	mg/L			10/12/24 15:05	1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 680-859199/14
Matrix: Water
Analysis Batch: 859199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.500	0.501		mg/L		100	90 - 110		

Lab Sample ID: 680-257090-6 MS
Matrix: Water
Analysis Batch: 859199

Client Sample ID: ITMW-9-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.024	J B	0.500	0.568		mg/L		109	90 - 110		

Lab Sample ID: 680-257090-6 MSD
Matrix: Water
Analysis Batch: 859199

Client Sample ID: ITMW-9-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.024	J B	0.500	0.565		mg/L		108	90 - 110	1	10

Lab Sample ID: MB 680-859635/14
Matrix: Water
Analysis Batch: 859635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	<0.010		0.10	0.010	mg/L			10/15/24 22:42	1

Lab Sample ID: LCS 680-859635/15
Matrix: Water
Analysis Batch: 859635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N			0.500	0.480		mg/L		96	90 - 110		

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 859635

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrite as N	0.059	J H F1	0.500	0.217	H F1	mg/L		32	90 - 110		

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 859635

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.059	J H F1	0.500	0.233	H F1	mg/L		35	90 - 110	7	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-860256/3
Matrix: Water
Analysis Batch: 860256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/18/24 16:57	1

Lab Sample ID: MB 680-860256/41
Matrix: Water
Analysis Batch: 860256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			10/18/24 23:50	1

Lab Sample ID: LCS 680-860256/4
Matrix: Water
Analysis Batch: 860256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: LCS 680-860256/42
Matrix: Water
Analysis Batch: 860256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 860256

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.5	F1	1.00	2.16	F1	mg/L		65	90 - 110

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 860256

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.5	F1	6.25	2.33	F1	mg/L		13	90 - 110	8	10

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-859803/1
Matrix: Water
Analysis Batch: 859803

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			10/16/24 03:37	1

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-859803/2
Matrix: Water
Analysis Batch: 859803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.5		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-859803/3
Matrix: Water
Analysis Batch: 859803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	19.4		mg/L		97	80 - 120	1	25

Lab Sample ID: 680-257090-6 DU
Matrix: Water
Analysis Batch: 859803

Client Sample ID: ITMW-9-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.3		1.37		mg/L		2	25

Method: 5310 B-2011 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 680-859545/1-A
Matrix: Water
Analysis Batch: 859804

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.50		1.0	0.50	mg/L			10/16/24 07:01	1

Lab Sample ID: LCS 680-859545/2-A
Matrix: Water
Analysis Batch: 859804

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	19.5		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-859545/3-A
Matrix: Water
Analysis Batch: 859804

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	19.7		mg/L		99	80 - 120	1	20

Lab Sample ID: 680-257090-6 DU
Matrix: Water
Analysis Batch: 859804

Client Sample ID: ITMW-9-202410
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Dissolved Organic Carbon	1.8		1.62		mg/L		8	30

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-859615/12
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.025		0.10	0.025	mg/L			10/15/24 12:20	1

Lab Sample ID: LCS 680-859615/11
Matrix: Water
Analysis Batch: 859615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			2.00	1.89		mg/L		95	80 - 120		

Lab Sample ID: 680-257090-11 MS
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-95-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	0.14	HF	2.00	1.99		mg/L		92	80 - 120		

Lab Sample ID: 680-257090-11 MSD
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-95-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	0.14	HF	2.00	1.99		mg/L		92	80 - 120	0	20

Lab Sample ID: 680-257090-12 MS
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	<0.025	HF F1	2.00	0.0392	J HF F1	mg/L		2	80 - 120		

Lab Sample ID: 680-257090-12 MSD
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-84-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	<0.025	HF F1	2.00	0.0426	J HF F1	mg/L		2	80 - 120	8	20

Lab Sample ID: 680-257090-27 MS
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-38-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	2.9	HF	2.00	4.73		mg/L		91	80 - 120		

Lab Sample ID: 680-257090-27 MSD
Matrix: Water
Analysis Batch: 859615

Client Sample ID: MW-38-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	2.9	HF	2.00	4.76		mg/L		93	80 - 120	1	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 400-688286/3
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.057		0.10	0.057	mg/L			10/17/24 15:00	1

Lab Sample ID: LCS 400-688286/4
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.534	0.579		mg/L		109	80 - 120

Lab Sample ID: MRL 400-688286/2
Matrix: Water
Analysis Batch: 688286

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0996	0.115		mg/L		116	50 - 150

Lab Sample ID: 680-257090-27 MS
Matrix: Water
Analysis Batch: 688286

Client Sample ID: MW-38-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.057		0.531	0.494		mg/L		93	75 - 125

Lab Sample ID: 680-257090-27 MSD
Matrix: Water
Analysis Batch: 688286

Client Sample ID: MW-38-202410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.057		0.531	0.528		mg/L		99	75 - 125	7	25

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Analysis Batch: 861105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-7	MW-58R-202410	Total/NA	Water	8260D	
680-257090-17	MW-87-202410	Total/NA	Water	8260D	
680-257090-18	ITMW-10-202410	Total/NA	Water	8260D	
MB 680-861105/9	Method Blank	Total/NA	Water	8260D	
LCS 680-861105/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-861105/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 861110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-2	ITMW-6-202410	Total/NA	Water	8260D	
680-257090-4	MW-178-202410	Total/NA	Water	8260D	
680-257090-5	MW-93-202410	Total/NA	Water	8260D	
680-257090-6	ITMW-9-202410	Total/NA	Water	8260D	
680-257090-8	TMW-11-202410	Total/NA	Water	8260D	
680-257090-10	ITMW-5-202410	Total/NA	Water	8260D	
680-257090-11	MW-95-202410	Total/NA	Water	8260D	
680-257090-16	TMW-24-202410	Total/NA	Water	8260D	
680-257090-19	RW-1-202410	Total/NA	Water	8260D	
680-257090-20	MW-215-202410	Total/NA	Water	8260D	
680-257090-21	EB-05-202410	Total/NA	Water	8260D	
680-257090-22	EB-06-202410	Total/NA	Water	8260D	
680-257090-23	ITMW-19-202410	Total/NA	Water	8260D	
680-257090-24	DUP-10-202410	Total/NA	Water	8260D	
680-257090-25	TB-09-202410	Total/NA	Water	8260D	
680-257090-26	TB-10-202410	Total/NA	Water	8260D	
680-257090-27	MW-38-202410	Total/NA	Water	8260D	
MB 680-861110/9	Method Blank	Total/NA	Water	8260D	
LCS 680-861110/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-861110/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 861180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	8260D	
680-257090-3	MW-175-202410	Total/NA	Water	8260D	
680-257090-28	TB-11-202410	Total/NA	Water	8260D	
MB 680-861180/8	Method Blank	Total/NA	Water	8260D	
LCS 680-861180/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-861180/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 861193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-2	ITMW-6-202410	Total/NA	Water	8260D	
680-257090-7	MW-58R-202410	Total/NA	Water	8260D	
680-257090-12	MW-84-202410	Total/NA	Water	8260D	
680-257090-22	EB-06-202410	Total/NA	Water	8260D	
MB 680-861193/9	Method Blank	Total/NA	Water	8260D	
LCS 680-861193/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-861193/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-257090-12 MS	MW-84-202410	Total/NA	Water	8260D	
680-257090-12 MSD	MW-84-202410	Total/NA	Water	8260D	

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Analysis Batch: 861197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	8260D	
680-257090-3	MW-175-202410	Total/NA	Water	8260D	
680-257090-14	MW-57R-202410	Total/NA	Water	8260D	
680-257090-14	MW-57R-202410	Total/NA	Water	8260D	
680-257090-15	ITMW-18-202410	Total/NA	Water	8260D	
MB 680-861197/9	Method Blank	Total/NA	Water	8260D	
LCS 680-861197/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-861197/6	Lab Control Sample Dup	Total/NA	Water	8260D	

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Analysis Batch: 564930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	RSK-175	564992
680-257090-7	MW-58R-202410	Total/NA	Water	RSK-175	564992
680-257090-8	TMW-11-202410	Total/NA	Water	RSK-175	564992
680-257090-11	MW-95-202410	Total/NA	Water	RSK-175	564992
680-257090-12	MW-84-202410	Total/NA	Water	RSK-175	564992
680-257090-17	MW-87-202410	Total/NA	Water	RSK-175	564992
680-257090-20	MW-215-202410	Total/NA	Water	RSK-175	564992
680-257090-23	ITMW-19-202410	Total/NA	Water	RSK-175	564992
680-257090-24	DUP-10-202410	Total/NA	Water	RSK-175	564992
680-257090-27	MW-38-202410	Total/NA	Water	RSK-175	564992
MB 410-564992/1-A	Method Blank	Total/NA	Water	RSK-175	564992
LCS 410-564992/2-A	Lab Control Sample	Total/NA	Water	RSK-175	564992
680-257090-12 MS	MW-84-202410	Total/NA	Water	RSK-175	564992
680-257090-12 MSD	MW-84-202410	Total/NA	Water	RSK-175	564992

Prep Batch: 564992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	RSK-175	
680-257090-7	MW-58R-202410	Total/NA	Water	RSK-175	
680-257090-8	TMW-11-202410	Total/NA	Water	RSK-175	
680-257090-11	MW-95-202410	Total/NA	Water	RSK-175	
680-257090-12	MW-84-202410	Total/NA	Water	RSK-175	
680-257090-17	MW-87-202410	Total/NA	Water	RSK-175	
680-257090-20	MW-215-202410	Total/NA	Water	RSK-175	
680-257090-23	ITMW-19-202410	Total/NA	Water	RSK-175	
680-257090-24	DUP-10-202410	Total/NA	Water	RSK-175	
680-257090-27	MW-38-202410	Total/NA	Water	RSK-175	
MB 410-564992/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-564992/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
680-257090-12 MS	MW-84-202410	Total/NA	Water	RSK-175	
680-257090-12 MSD	MW-84-202410	Total/NA	Water	RSK-175	

Analysis Batch: 565638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-8 - DL	TMW-11-202410	Total/NA	Water	RSK-175	565694
MB 410-565694/1-A	Method Blank	Total/NA	Water	RSK-175	565694
LCS 410-565694/2-A	Lab Control Sample	Total/NA	Water	RSK-175	565694
LCSD 410-565694/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	565694

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Prep Batch: 565694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-8 - DL	TMW-11-202410	Total/NA	Water	RSK-175	
MB 410-565694/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-565694/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-565694/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 688689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	RSK-175	
MB 400-688689/3	Method Blank	Total/NA	Water	RSK-175	
LCS 400-688689/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 400-688689/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 116637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	VFA-HPLC	
680-257090-8	TMW-11-202410	Total/NA	Water	VFA-HPLC	
MB 670-116637/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-116637/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-116637/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 860696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-6	ITMW-9-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-7	MW-58R-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-860696/34	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-860696/36	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-860696/37	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 860850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-8	TMW-11-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-11	MW-95-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-17	MW-87-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-20	MW-215-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-27	MW-38-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-860850/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-860850/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-860850/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 861048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-12	MW-84-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-23	ITMW-19-202410	Total/NA	Water	300.0-1993 R2.1	
680-257090-24	DUP-10-202410	Total/NA	Water	300.0-1993 R2.1	
MB 680-861048/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-861048/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-861048/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-257090-12 MS	MW-84-202410	Total/NA	Water	300.0-1993 R2.1	

HPLC/IC (Continued)

Analysis Batch: 861048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-12 MSD	MW-84-202410	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 859404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-8	TMW-11-202410	Total Recoverable	Water	3005A	
680-257090-11	MW-95-202410	Total Recoverable	Water	3005A	
680-257090-12	MW-84-202410	Total Recoverable	Water	3005A	
MB 680-859404/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-859404/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-257090-12 MS	MW-84-202410	Total Recoverable	Water	3005A	
680-257090-12 MSD	MW-84-202410	Total Recoverable	Water	3005A	

Prep Batch: 859406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total Recoverable	Water	3005A	
680-257090-6	ITMW-9-202410	Total Recoverable	Water	3005A	
680-257090-7	MW-58R-202410	Total Recoverable	Water	3005A	
680-257090-17	MW-87-202410	Total Recoverable	Water	3005A	
680-257090-20	MW-215-202410	Total Recoverable	Water	3005A	
680-257090-23	ITMW-19-202410	Total Recoverable	Water	3005A	
680-257090-24	DUP-10-202410	Total Recoverable	Water	3005A	
680-257090-27	MW-38-202410	Total Recoverable	Water	3005A	
MB 680-859406/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-859406/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 859655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-8	TMW-11-202410	Total Recoverable	Water	6010D	859404
680-257090-11	MW-95-202410	Total Recoverable	Water	6010D	859404
680-257090-12	MW-84-202410	Total Recoverable	Water	6010D	859404
MB 680-859404/1-A	Method Blank	Total Recoverable	Water	6010D	859404
LCS 680-859404/2-A	Lab Control Sample	Total Recoverable	Water	6010D	859404
680-257090-12 MS	MW-84-202410	Total Recoverable	Water	6010D	859404
680-257090-12 MSD	MW-84-202410	Total Recoverable	Water	6010D	859404

Analysis Batch: 860153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total Recoverable	Water	6010D	859406
680-257090-6	ITMW-9-202410	Total Recoverable	Water	6010D	859406
680-257090-7	MW-58R-202410	Total Recoverable	Water	6010D	859406
680-257090-17	MW-87-202410	Total Recoverable	Water	6010D	859406
680-257090-20	MW-215-202410	Total Recoverable	Water	6010D	859406
680-257090-23	ITMW-19-202410	Total Recoverable	Water	6010D	859406
680-257090-24	DUP-10-202410	Total Recoverable	Water	6010D	859406
680-257090-27	MW-38-202410	Total Recoverable	Water	6010D	859406
MB 680-859406/1-A	Method Blank	Total Recoverable	Water	6010D	859406
LCS 680-859406/2-A	Lab Control Sample	Total Recoverable	Water	6010D	859406

General Chemistry

Analysis Batch: 688286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-7	MW-58R-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-8	TMW-11-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-11	MW-95-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-17	MW-87-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-27	MW-38-202410	Total/NA	Water	SM 4500 S2 D	
MB 400-688286/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 400-688286/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
MRL 400-688286/2	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
680-257090-27 MS	MW-38-202410	Total/NA	Water	SM 4500 S2 D	
680-257090-27 MSD	MW-38-202410	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 859199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	353.2	
680-257090-8	TMW-11-202410	Total/NA	Water	353.2	
680-257090-12	MW-84-202410	Total/NA	Water	353.2	
680-257090-17	MW-87-202410	Total/NA	Water	353.2	
680-257090-20	MW-215-202410	Total/NA	Water	353.2	
680-257090-23	ITMW-19-202410	Total/NA	Water	353.2	
680-257090-24	DUP-10-202410	Total/NA	Water	353.2	
MB 680-859199/13	Method Blank	Total/NA	Water	353.2	
LCS 680-859199/14	Lab Control Sample	Total/NA	Water	353.2	
680-257090-6 MS	ITMW-9-202410	Total/NA	Water	353.2	
680-257090-6 MSD	ITMW-9-202410	Total/NA	Water	353.2	

Analysis Batch: 859343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	Nitrate by calc	
680-257090-8	TMW-11-202410	Total/NA	Water	Nitrate by calc	
680-257090-12	MW-84-202410	Total/NA	Water	Nitrate by calc	
680-257090-17	MW-87-202410	Total/NA	Water	Nitrate by calc	
680-257090-20	MW-215-202410	Total/NA	Water	Nitrate by calc	
680-257090-23	ITMW-19-202410	Total/NA	Water	Nitrate by calc	
680-257090-24	DUP-10-202410	Total/NA	Water	Nitrate by calc	

Filtration Batch: 859545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Dissolved	Water	FILTRATION	
680-257090-8	TMW-11-202410	Dissolved	Water	FILTRATION	
MB 680-859545/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 680-859545/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 680-859545/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
680-257090-6 DU	ITMW-9-202410	Dissolved	Water	FILTRATION	

Analysis Batch: 859615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	SM 3500 FE D	
680-257090-6	ITMW-9-202410	Total/NA	Water	SM 3500 FE D	
680-257090-7	MW-58R-202410	Total/NA	Water	SM 3500 FE D	
680-257090-8	TMW-11-202410	Total/NA	Water	SM 3500 FE D	

General Chemistry (Continued)

Analysis Batch: 859615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-11	MW-95-202410	Total/NA	Water	SM 3500 FE D	
680-257090-12	MW-84-202410	Total/NA	Water	SM 3500 FE D	
680-257090-17	MW-87-202410	Total/NA	Water	SM 3500 FE D	
680-257090-20	MW-215-202410	Total/NA	Water	SM 3500 FE D	
680-257090-23	ITMW-19-202410	Total/NA	Water	SM 3500 FE D	
680-257090-24	DUP-10-202410	Total/NA	Water	SM 3500 FE D	
680-257090-27	MW-38-202410	Total/NA	Water	SM 3500 FE D	
MB 680-859615/12	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-859615/11	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
680-257090-11 MS	MW-95-202410	Total/NA	Water	SM 3500 FE D	
680-257090-11 MSD	MW-95-202410	Total/NA	Water	SM 3500 FE D	
680-257090-12 MS	MW-84-202410	Total/NA	Water	SM 3500 FE D	
680-257090-12 MSD	MW-84-202410	Total/NA	Water	SM 3500 FE D	
680-257090-27 MS	MW-38-202410	Total/NA	Water	SM 3500 FE D	
680-257090-27 MSD	MW-38-202410	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 859635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-12	MW-84-202410	Total/NA	Water	353.2	
MB 680-859635/14	Method Blank	Total/NA	Water	353.2	
LCS 680-859635/15	Lab Control Sample	Total/NA	Water	353.2	
680-257090-12 MS	MW-84-202410	Total/NA	Water	353.2	
680-257090-12 MSD	MW-84-202410	Total/NA	Water	353.2	

Analysis Batch: 859803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	5310 B-2011	
680-257090-8	TMW-11-202410	Total/NA	Water	5310 B-2011	
MB 680-859803/1	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-859803/2	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-859803/3	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
680-257090-6 DU	ITMW-9-202410	Total/NA	Water	5310 B-2011	

Analysis Batch: 859804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Dissolved	Water	5310 B-2011	859545
680-257090-8	TMW-11-202410	Dissolved	Water	5310 B-2011	859545
MB 680-859545/1-A	Method Blank	Dissolved	Water	5310 B-2011	859545
LCS 680-859545/2-A	Lab Control Sample	Dissolved	Water	5310 B-2011	859545
LCSD 680-859545/3-A	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	859545
680-257090-6 DU	ITMW-9-202410	Dissolved	Water	5310 B-2011	859545

Analysis Batch: 860256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-6	ITMW-9-202410	Total/NA	Water	353.2	
680-257090-8	TMW-11-202410	Total/NA	Water	353.2	
680-257090-12	MW-84-202410	Total/NA	Water	353.2	
680-257090-17	MW-87-202410	Total/NA	Water	353.2	
680-257090-20	MW-215-202410	Total/NA	Water	353.2	
680-257090-23	ITMW-19-202410	Total/NA	Water	353.2	
680-257090-24	DUP-10-202410	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 860256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-860256/3	Method Blank	Total/NA	Water	353.2	
MB 680-860256/41	Method Blank	Total/NA	Water	353.2	
LCS 680-860256/4	Lab Control Sample	Total/NA	Water	353.2	
LCS 680-860256/42	Lab Control Sample	Total/NA	Water	353.2	
680-257090-12 MS	MW-84-202410	Total/NA	Water	353.2	
680-257090-12 MSD	MW-84-202410	Total/NA	Water	353.2	

Analysis Batch: 861131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257090-1	MW-25R-202410	Total/NA	Water	SM 3500	
680-257090-6	ITMW-9-202410	Total/NA	Water	SM 3500	
680-257090-7	MW-58R-202410	Total/NA	Water	SM 3500	
680-257090-8	TMW-11-202410	Total/NA	Water	SM 3500	
680-257090-11	MW-95-202410	Total/NA	Water	SM 3500	
680-257090-17	MW-87-202410	Total/NA	Water	SM 3500	
680-257090-27	MW-38-202410	Total/NA	Water	SM 3500	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-25R-202410

Date Collected: 10/11/24 07:40
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861180	10/25/24 14:15	MLL	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		50	5 mL	5 mL	861197	10/25/24 15:32	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 19:14	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		25	2 mL	2 mL	860696	10/22/24 18:26	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:55	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: ITMW-6-202410

Date Collected: 10/11/24 08:45
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	861193	10/25/24 15:53	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		5	5 mL	5 mL	861110	10/24/24 23:53	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-175-202410

Date Collected: 10/11/24 08:05
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861180	10/25/24 14:37	MLL	EET SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260D		1	5 mL	5 mL	861197	10/25/24 16:38	MLL	EET SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-178-202410

Date Collected: 10/11/24 08:45
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 19:43	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-93-202410

Date Collected: 10/11/24 09:25
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		50	5 mL	5 mL	861110	10/24/24 21:54	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: ITMW-9-202410

Date Collected: 10/11/24 09:00
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		25	5 mL	5 mL	861110	10/24/24 22:18	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	1 mL	1 mL	688689	10/22/24 10:41	BJ	EET PEN
	Instrument ID: Woody									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860696	10/22/24 18:33	BS	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:45	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:07	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		5	2 mL	2 mL	860256	10/19/24 05:53	KD	EET SAV
	Instrument ID: SEAL 1									
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859545	10/15/24 12:19	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859804	10/16/24 08:07	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859803	10/16/24 04:46	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-58R-202410

Lab Sample ID: 680-257090-7

Date Collected: 10/11/24 09:20

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861105	10/25/24 00:25	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		2	5 mL	5 mL	861193	10/25/24 16:16	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 19:32	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860696	10/22/24 18:39	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:43	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: TMW-11-202410

Lab Sample ID: 680-257090-8

Date Collected: 10/11/24 10:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 20:05	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 19:50	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	565694	10/21/24 10:35	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	20	5 mL	5 mL	565638	10/21/24 16:27	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860850	10/23/24 13:55	T1C	EET SAV
	Instrument ID: CICR									
Total/NA	Analysis	VFA-HPLC		1			116637	10/16/24 16:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 16:56	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:10	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860256	10/19/24 07:43	KD	EET SAV
	Instrument ID: SEAL 1									

Client Sample ID: TMW-11-202410

Lab Sample ID: 680-257090-8

Date Collected: 10/11/24 10:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	859545	10/15/24 12:19	NVF	EET SAV
Dissolved	Analysis	5310 B-2011		1	40 mL	40 mL	859804	10/16/24 08:42	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	859803	10/16/24 05:20	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: ITMW-5-202410

Lab Sample ID: 680-257090-10

Date Collected: 10/11/24 10:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		25	5 mL	5 mL	861110	10/24/24 22:41	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-95-202410

Lab Sample ID: 680-257090-11

Date Collected: 10/11/24 10:24

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		200	5 mL	5 mL	861110	10/24/24 21:30	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 20:08	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		20	2 mL	2 mL	860850	10/23/24 14:21	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 16:59	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:45	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-257090-1

Client Sample ID: MW-84-202410

Date Collected: 10/11/24 10:00
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861193	10/25/24 15:08	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 20:27	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		100	2 mL	2 mL	861048	10/24/24 17:54	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859404	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			859655	10/15/24 16:43	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:11	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859635	10/15/24 22:44	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	12.5 mL	12.5 mL	860256	10/19/24 07:38	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:20	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-57R-202410

Date Collected: 10/11/24 11:00
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861197	10/25/24 17:16	MLL	EET SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	8260D		5	5 mL	5 mL	861197	10/25/24 17:59	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: ITMW-18-202410

Date Collected: 10/11/24 11:50
Date Received: 10/12/24 10:41

Lab Sample ID: 680-257090-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		20	5 mL	5 mL	861197	10/25/24 16:05	MLL	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TMW-24-202410

Lab Sample ID: 680-257090-16

Date Collected: 10/11/24 11:15

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	861110	10/25/24 00:41	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-87-202410

Lab Sample ID: 680-257090-17

Date Collected: 10/11/24 11:50

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	861105	10/25/24 00:48	P1C	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 21:40	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860850	10/23/24 14:28	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:24	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:12	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860256	10/18/24 23:45	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:51	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: ITMW-10-202410

Lab Sample ID: 680-257090-18

Date Collected: 10/11/24 12:50

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		2	5 mL	5 mL	861105	10/25/24 01:12	P1C	EET SAV
	Instrument ID: CMSB									

Client Sample ID: RW-1-202410

Lab Sample ID: 680-257090-19

Date Collected: 10/11/24 12:10

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		500	5 mL	5 mL	861110	10/24/24 21:09	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-215-202410

Lab Sample ID: 680-257090-20

Date Collected: 10/11/24 13:40

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	861110	10/24/24 23:05	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 21:58	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	860850	10/23/24 14:34	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:57	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:13	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860256	10/18/24 23:46	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:35	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: EB-05-202410

Lab Sample ID: 680-257090-21

Date Collected: 10/11/24 15:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 20:26	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: EB-06-202410

Lab Sample ID: 680-257090-22

Date Collected: 10/11/24 15:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861193	10/25/24 13:23	MLL	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 20:48	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: ITMW-19-202410

Lab Sample ID: 680-257090-23

Date Collected: 10/11/24 00:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	861110	10/25/24 01:04	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 22:16	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		100	2 mL	2 mL	861048	10/24/24 18:13	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 00:59	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:14	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860256	10/18/24 23:43	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		10	2 mL	2 mL	859615	10/15/24 12:58	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: DUP-10-202410

Lab Sample ID: 680-257090-24

Date Collected: 10/11/24 00:00

Matrix: Water

Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	861110	10/25/24 01:28	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 22:34	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		100	2 mL	2 mL	861048	10/24/24 18:20	BS	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 01:07	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	859199	10/12/24 15:15	NVF	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	860256	10/19/24 07:45	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			859343	10/21/24 14:26	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		10	2 mL	2 mL	859615	10/15/24 12:58	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: TB-09-202410
Lab Sample ID: 680-257090-25
Date Collected: 10/11/24 08:00
Matrix: Water
Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 19:00	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: TB-10-202410
Lab Sample ID: 680-257090-26
Date Collected: 10/11/24 08:00
Matrix: Water
Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861110	10/24/24 19:22	P1C	EET SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-38-202410
Lab Sample ID: 680-257090-27
Date Collected: 10/11/24 14:00
Matrix: Water
Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	861110	10/24/24 23:29	P1C	EET SAV
	Instrument ID: CMSP2									
Total/NA	Prep	RSK-175			5 mL	5 mL	564992	10/18/24 10:56	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	564930	10/18/24 22:52	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	860850	10/23/24 15:13	T1C	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	25 mL	859406	10/15/24 04:38	RR	EET SAV
Total Recoverable	Analysis	6010D		1			860153	10/18/24 01:09	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	SM 3500		1			861131	10/24/24 16:11	ALG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	859615	10/15/24 12:27	KD	EET SAV
	Instrument ID: KONELAB4									
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	688286	10/17/24 15:00	AC	EET PEN
	Instrument ID: Spec 2									

Client Sample ID: TB-11-202410
Lab Sample ID: 680-257090-28
Date Collected: 10/11/24 08:00
Matrix: Water
Date Received: 10/12/24 10:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	861180	10/25/24 13:10	MLL	EET SAV
	Instrument ID: CMSAA									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984
EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00689	08-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-257090-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	EET PEN
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Dissolved (DOC)	SM	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500	Iron, Ferric	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
SM 4500 S2 D	Sulfide, Total	SM	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: RMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days): Standard TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool	Project #:			
Site: Fort Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-25R-202410	10/11/24	0740	G	W	N	N	X				X		X	X			X	X			
MW-83-202410	10/11/24	0800	G	W	N	N	X	X	X	X	X		X	X			X	-			
ITMW-6-202410	10/11/24	0845	G	W	N	N	X														
MW-175-202410	10/11/24	0805	G	W	N	N	X														
MW-178-202410	10/11/24	0845	G	W	N	N	X														
MW-93-202410	10/11/24	0925	G	W	N	N	X														
ITMW-9-202410	10/11/24	0900	G	W	N	N	X	X			X	X		X	X	X	X	-	X		
MW-58R-202410	10/11/24	0920	G	W	N	N	X				X		X	X			X	X			
TMW-11-202410	10/11/24	1000	G	W	N	N	X	X			X		X	X	X	X	X	X	X		
MW-~~202410~~204-202410	10/11/24	1000	G	W	N	N	X														
ITMW-5-202410	10/11/24	1000	G	W	N	N	X														

680-257090 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C.Murray	Date/Time: 10/12/24 1041	Company Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.1/5.1 2.9/2.9 3.8/3.8

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: RAMBOLL	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 2 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days):			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool	Project #:			
Site: Fort Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-95-202410	10/11/24	1024			N	N	X				X		X	X			X	X			
MW-84-202410	10/11/24	1000			N	Y	X		X				X	X			X				MS/MSD
MW-84-202410-MS	10/11/24	1010			N		↓		↓				↓	↓			↓				
MW-84-202410-MSD	10/11/24	1015			N		↓		↓				↓	↓			↓				
MW-46R-202410	10/11/24	1110			N		X														
MW-57R-202410	10/11/24	1100			N		X														
ITMW-18-202410	10/11/24	1150			N		X														
TMW-24-202410	10/11/24	1115			N		X														
MW-87-202410	10/11/24	1150			N		X	X	X		X		X	X			X	X			
ITMW-10-202410	10/11/24	1250			N		X														
RW-1-202410	10/11/24	1210			N		X														

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
	[signature]	10/11/2024 1530				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 10/12/24 1041	Company Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.1/5.1 2.9/2.9 3.8/3.8

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ramboll	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 3 of 3
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 7500 College Boulevard Suite 925	Due Date Requested:			
City: Overland Park	TAT Requested (days):			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #:			
Project Name: Whirlpool	Project #:			
Site: Fort Smith, AR	SSOW#:			

Analysis Requested

Preservation Codes:
CB - ZnAcetate/NaOH
S - H2SO4
D - HNO3
A - HCL
N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29)	353.2_Pres - Nitrate-Nitrite-N	3500_F+2_D_Calc, 353.2_Nitrite - Ferrous Iron & Nitrite as N	Nitrate_Calc - Nitrate as N (Calculated)	3500_F+3_D_Calc - Ferric Iron (Calculated)	RSK_175 - Dissolved Gases - MEE	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	300_ORGFM_28D - Chloride and/or Sulfate	SM5310_TOC_B - TOC	SM5310_DOC_B - DOC (Lab Filtered)	6010D - Total Iron	SM4500_S2_D - Sulfide, Total	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	S	N	N	N	N	A	N	S	N	D	CB	A		
MW-215-202410	10/11/24	1340	G	W	N	N	X	X	X				X	X			X				
EB-05-202410	10/11/24	1500	G	W	N	N	X														
EB-06-202410	10/11/24	1500	G	W	N	N	X														
ITMW-19-202410	10/11/24		G	W	N	N	X	X	X				X	X			X				
DUP-10-202410	10/11/24		G	W	N	N	X	X	X				X	X			X				
TB-09-202410	10/11/24	0800	G	W	N	N	X														
TB-10-202410	10/11/24	0800	G	W	N	N	X														
MW-38-202410	10/11/24	1400	G	W	N	N	X				X		X	X			X	X			
TB-11-202410	10/11/24	0800	G	W	N	N	X														
									MS	MS											

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
[signature]	10/11/24 1530				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 10/12/24 1041	Company Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.1/5.1 2.9/2.9 3.8/3.8

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784656.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257090-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 10/25/2024	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			Other:
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_D/ (MOD) Sulfide, Total	RSK_175/ MEE (Dissolved Gases)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-25R-202410 (680-257090-1)	10/11/24	07:40 Central	G	Water			X			
ITMW-9-202410 (680-257090-6)	10/11/24	09:00 Central	G	Water				X		
MW-58R-202410 (680-257090-7)	10/11/24	09:20 Central	G	Water			X			
TMW-11-202410 (680-257090-8)	10/11/24	10:00 Central	G	Water			X			
MW-95-202410 (680-257090-11)	10/11/24	10:24 Central	G	Water			X			
MW-87-202410 (680-257090-17)	10/11/24	11:50 Central	G	Water			X			
MW-38-202410 (680-257090-27)	10/11/24	14:00 Central	G	Water			X			

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/16/24 9:06 / Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	2.5, 0.0 IR8

Ver: 05/06/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784639.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW), State - Arkansas DEQ		Job #: 680-257090-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 10/28/2024	Analysis Requested		Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601	PO #:			
Phone: 717-656-2300(Tel)	WO #:			
Email:	Project #: 68031817			Other:
Project Name: Whirlpool 2024 Annual Fort Smith, AR	SSOW#:			
Site:				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-25R-202410 (680-257090-1)	10/11/24	07:40 Central	G	Water			X	2	
MW-58R-202410 (680-257090-7)	10/11/24	09:20 Central	G	Water			X	2	
TMW-11-202410 (680-257090-8)	10/11/24	10:00 Central	G	Water			X	2	
MW-95-202410 (680-257090-11)	10/11/24	10:24 Central	G	Water			X	2	
MW-84-202410 (680-257090-12)	10/11/24	10:00 Central	G	Water			X	2	
MW-84-202410 (680-257090-12MS)	10/11/24	10:10 Central	G	Water			X	2	
MW-84-202410 (680-257090-12MSD)	10/11/24	10:10 Central	G	Water			X	2	
MW-87-202410 (680-257090-17)	10/11/24	11:50 Central	G	Water			X	2	
MW-215-202410 (680-257090-20)	10/11/24	13:40 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		10/15/24 1300				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/16/24 10:30	Company EUEST

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3/3.0

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784639 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257090-1
Address: 2425 New Holland Pike,	Due Date Requested: 10/28/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			Other:
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ITMW-19-202410 (680-257090-23)	10/11/24	Central	G	Water			X	2	
DUP-10 (680-257090-24)	10/11/24	Central	G	Water			X	2	
MW-38-202410 (680-257090-27)	10/11/24	14:00 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/15/24 1300				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/16/24 10:30	Company: GLCET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1/3.0

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784629.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-257090-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 10/24/2024			
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VFA_HPLC_PREC/ VFAS (8)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ITMW-9-202410 (680-257090-6)	10/11/24	09:00 Central	G	Water			X	2	
TMW-11-202410 (680-257090-8)	10/11/24	10:00 Central	G	Water			X	2	

Analysis Requested

Preservation Codes:

Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/15/24 1230	Company	Received by: BB	Date/Time: 10/15 950	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6, 1.6

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257090-1

Login Number: 257090
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	MW-83 - Not Received
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257090-1

Login Number: 257090
List Number: 3
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 10/16/24 12:25 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257090-1

Login Number: 257090
List Number: 2
Creator: Beck, Brent

List Source: Eurofins Orlando
List Creation: 10/16/24 12:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-257090-1

Login Number: 257090
List Number: 4
Creator: Roberts, Darrien

List Source: Eurofins Pensacola
List Creation: 10/16/24 03:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C, 0.0°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	<12. HC318548
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
10851 Mastin Boulevard
Suite 100
Overland Park, Kansas 66210

Generated 11/25/2024 9:19:52 AM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-258956-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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 Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-258956-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-258956-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258956-1	IW-78-202411	Water	11/19/24 10:40	11/21/24 10:30
680-258956-2	MW-204-202411	Water	11/19/24 12:25	11/21/24 10:30
680-258956-3	MW-46R-202411	Water	11/19/24 14:35	11/21/24 10:30
680-258956-4	MW-196-202411	Water	11/19/24 16:15	11/21/24 10:30
680-258956-5	EB-07-202411	Water	11/19/24 17:00	11/21/24 10:30
680-258956-6	TMW-26-202411	Water	11/20/24 09:40	11/21/24 10:30
680-258956-7	TMW-16-202411	Water	11/20/24 10:40	11/21/24 10:30
680-258956-8	TMW-23-202411	Water	11/20/24 12:05	11/21/24 10:30
680-258956-9	MW-194-202411	Water	11/20/24 14:05	11/21/24 10:30
680-258956-10	MW-55R-202411	Water	11/20/24 15:40	11/21/24 10:30
680-258956-11	TB-12-202411	Water	11/19/24 08:00	11/21/24 10:30
680-258956-12	DUP-06-202411	Water	11/19/24 10:45	11/21/24 10:30

Job ID: 680-258956-1 — Eurofins Savannah

Job Narrative
680-258956-1

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.

Receipt
The samples were received on 11/21/2024 10:30 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 4.2°C.

Receipt Exceptions
1 vial each for MW-196-202411 (680-258956-4) and MW-55R-202411 (680-258956-10) received broken. Sufficient volume remained to complete testing.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-258956-1

Client Sample ID: IW-78-202411 — Lab Sample ID: 680-258956-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	17		1.0	0.59	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.59	J	1.0	0.25	ug/L	1		8260D	Total/NA
Dibromochloromethane	1.2		1.0	0.39	ug/L	1		8260D	Total/NA
Trichloroethene	24		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-204-202411 — Lab Sample ID: 680-258956-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	3.0		1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	32		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-46R-202411 — Lab Sample ID: 680-258956-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.34	J	1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	120		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-196-202411 — Lab Sample ID: 680-258956-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.31	J	1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: EB-07-202411 — Lab Sample ID: 680-258956-5

No Detections.

Client Sample ID: TMW-26-202411 — Lab Sample ID: 680-258956-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	1.1		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	2.9		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-16-202411 — Lab Sample ID: 680-258956-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.32	J	1.0	0.15	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.28	J	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	6.6		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: TMW-23-202411 — Lab Sample ID: 680-258956-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	160		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-194-202411 — Lab Sample ID: 680-258956-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.6	J	10	3.7	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-258956-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-194-202411 (Continued)
Lab Sample ID: 680-258956-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.0		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	6.7		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: MW-55R-202411
Lab Sample ID: 680-258956-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	23		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: TB-12-202411
Lab Sample ID: 680-258956-11

No Detections.

Client Sample ID: DUP-06-202411
Lab Sample ID: 680-258956-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	17		1.0	0.59	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.58	J	1.0	0.25	ug/L	1		8260D	Total/NA
Dibromochloromethane	1.2		1.0	0.39	ug/L	1		8260D	Total/NA
Trichloroethene	24		1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: IW-78-202411

Lab Sample ID: 680-258956-1

Date Collected: 11/19/24 10:40

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 20:12	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 20:12	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 20:12	1
Bromoform	**17**		1.0	0.59	ug/L			11/23/24 20:12	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 20:12	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 20:12	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 20:12	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 20:12	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 20:12	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 20:12	1
cis-1,2-Dichloroethene	**0.59**	**J**	1.0	0.25	ug/L			11/23/24 20:12	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 20:12	1
Dibromochloromethane	**1.2**		1.0	0.39	ug/L			11/23/24 20:12	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 20:12	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 20:12	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 20:12	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 20:12	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 20:12	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 20:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 20:12	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 20:12	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 20:12	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 20:12	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 20:12	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 20:12	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 20:12	1
Trichloroethene	**24**		1.0	0.20	ug/L			11/23/24 20:12	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 20:12	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/23/24 20:12*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/23/24 20:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/23/24 20:12*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/23/24 20:12*	*1*

Client Sample ID: MW-204-202411

Lab Sample ID: 680-258956-2

Date Collected: 11/19/24 12:25

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 20:34	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 20:34	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 20:34	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 20:34	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 20:34	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 20:34	1
Chlorobenzene	**3.0**		1.0	0.15	ug/L			11/23/24 20:34	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 20:34	1

Client Sample ID: MW-204-202411

Lab Sample ID: 680-258956-2

Date Collected: 11/19/24 12:25

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 20:34	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 20:34	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.25	ug/L			11/23/24 20:34	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 20:34	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 20:34	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 20:34	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 20:34	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 20:34	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 20:34	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 20:34	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 20:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 20:34	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 20:34	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 20:34	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 20:34	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 20:34	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 20:34	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 20:34	1
Trichloroethene	**32**		1.0	0.20	ug/L			11/23/24 20:34	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 20:34	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/23/24 20:34*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*11/23/24 20:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/23/24 20:34*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/23/24 20:34*	*1*

Client Sample ID: MW-46R-202411

Lab Sample ID: 680-258956-3

Date Collected: 11/19/24 14:35

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 20:57	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 20:57	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 20:57	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 20:57	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 20:57	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 20:57	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 20:57	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 20:57	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 20:57	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 20:57	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			11/23/24 20:57	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 20:57	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 20:57	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 20:57	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 20:57	1
1,1-Dichloroethene	**0.34**	**J**	1.0	0.33	ug/L			11/23/24 20:57	1

Client Sample ID: MW-46R-202411

Lab Sample ID: 680-258956-3

Date Collected: 11/19/24 14:35

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 20:57	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 20:57	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 20:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 20:57	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 20:57	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 20:57	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 20:57	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 20:57	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 20:57	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 20:57	1
Trichloroethene	**120**		1.0	0.20	ug/L			11/23/24 20:57	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 20:57	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*11/23/24 20:57*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 20:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/23/24 20:57*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/23/24 20:57*	*1*

Client Sample ID: MW-196-202411

Lab Sample ID: 680-258956-4

Date Collected: 11/19/24 16:15

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 21:20	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 21:20	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 21:20	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 21:20	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 21:20	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 21:20	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 21:20	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 21:20	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 21:20	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 21:20	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/23/24 21:20	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 21:20	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 21:20	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 21:20	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 21:20	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 21:20	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 21:20	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 21:20	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 21:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 21:20	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 21:20	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 21:20	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 21:20	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 21:20	1

Client Sample ID: MW-196-202411

Lab Sample ID: 680-258956-4

Date Collected: 11/19/24 16:15

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 21:20	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 21:20	1
Trichloroethene	0.31	J	1.0	0.20	ug/L			11/23/24 21:20	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 21:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/23/24 21:20*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 21:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/23/24 21:20*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/23/24 21:20*	*1*

Client Sample ID: EB-07-202411

Lab Sample ID: 680-258956-5

Date Collected: 11/19/24 17:00

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 19:26	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 19:26	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 19:26	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 19:26	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 19:26	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 19:26	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 19:26	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 19:26	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 19:26	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 19:26	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/23/24 19:26	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 19:26	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 19:26	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 19:26	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 19:26	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 19:26	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 19:26	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 19:26	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 19:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 19:26	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 19:26	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 19:26	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 19:26	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 19:26	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 19:26	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 19:26	1
Trichloroethene	<0.20		1.0	0.20	ug/L			11/23/24 19:26	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 19:26	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*11/23/24 19:26*	*1*

Client Sample ID: EB-07-202411

Lab Sample ID: 680-258956-5

Date Collected: 11/19/24 17:00

Matrix: Water

Date Received: 11/21/24 10:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*11/23/24 19:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/23/24 19:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/23/24 19:26*	*1*

Client Sample ID: TMW-26-202411

Lab Sample ID: 680-258956-6

Date Collected: 11/20/24 09:40

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 21:42	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 21:42	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 21:42	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 21:42	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 21:42	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 21:42	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 21:42	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 21:42	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 21:42	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 21:42	1
cis-1,2-Dichloroethene	**1.0**		1.0	0.25	ug/L			11/23/24 21:42	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 21:42	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 21:42	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 21:42	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 21:42	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 21:42	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 21:42	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 21:42	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 21:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 21:42	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 21:42	1
Toluene	**1.1**		1.0	0.25	ug/L			11/23/24 21:42	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 21:42	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 21:42	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 21:42	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 21:42	1
Trichloroethene	**2.9**		1.0	0.20	ug/L			11/23/24 21:42	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			11/23/24 21:42	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/23/24 21:42*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/23/24 21:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/23/24 21:42*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/23/24 21:42*	*1*

Client Sample ID: TMW-16-202411

Lab Sample ID: 680-258956-7

Date Collected: 11/20/24 10:40

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 22:05	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 22:05	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 22:05	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 22:05	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 22:05	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 22:05	1
Chlorobenzene	**0.32**	**J**	1.0	0.15	ug/L			11/23/24 22:05	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 22:05	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 22:05	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 22:05	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.25	ug/L			11/23/24 22:05	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 22:05	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 22:05	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 22:05	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 22:05	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 22:05	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 22:05	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 22:05	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 22:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 22:05	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 22:05	1
Toluene	**0.28**	**J**	1.0	0.25	ug/L			11/23/24 22:05	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 22:05	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 22:05	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 22:05	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 22:05	1
Trichloroethene	**6.6**		1.0	0.20	ug/L			11/23/24 22:05	1
Vinyl chloride	**3.0**		1.0	0.40	ug/L			11/23/24 22:05	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/23/24 22:05*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/23/24 22:05*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/23/24 22:05*	*1*

Client Sample ID: TMW-23-202411

Lab Sample ID: 680-258956-8

Date Collected: 11/20/24 12:05

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 22:28	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 22:28	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 22:28	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 22:28	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 22:28	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 22:28	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 22:28	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 22:28	1

Client Sample ID: TMW-23-202411

Lab Sample ID: 680-258956-8

Date Collected: 11/20/24 12:05

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 22:28	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 22:28	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.25	ug/L			11/23/24 22:28	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 22:28	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 22:28	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 22:28	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 22:28	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 22:28	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 22:28	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 22:28	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 22:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 22:28	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 22:28	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 22:28	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 22:28	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 22:28	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 22:28	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 22:28	1
Trichloroethene	**160**		1.0	0.20	ug/L			11/23/24 22:28	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 22:28	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/23/24 22:28*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/23/24 22:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/23/24 22:28*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/23/24 22:28*	*1*

Client Sample ID: MW-194-202411

Lab Sample ID: 680-258956-9

Date Collected: 11/20/24 14:05

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.6**	**J**	10	3.7	ug/L			11/23/24 22:50	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 22:50	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 22:50	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 22:50	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 22:50	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 22:50	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 22:50	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 22:50	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 22:50	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 22:50	1
cis-1,2-Dichloroethene	**3.0**		1.0	0.25	ug/L			11/23/24 22:50	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 22:50	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 22:50	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 22:50	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 22:50	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 22:50	1

Client Sample ID: MW-194-202411

Lab Sample ID: 680-258956-9

Date Collected: 11/20/24 14:05

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 22:50	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 22:50	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 22:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 22:50	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 22:50	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 22:50	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 22:50	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 22:50	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 22:50	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 22:50	1
Trichloroethene	**6.7**		1.0	0.20	ug/L			11/23/24 22:50	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 22:50	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*11/23/24 22:50*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 22:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/23/24 22:50*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/23/24 22:50*	*1*

Client Sample ID: MW-55R-202411

Lab Sample ID: 680-258956-10

Date Collected: 11/20/24 15:40

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 23:13	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 23:13	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 23:13	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 23:13	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 23:13	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 23:13	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 23:13	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 23:13	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 23:13	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 23:13	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.25	ug/L			11/23/24 23:13	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 23:13	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 23:13	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 23:13	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 23:13	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 23:13	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 23:13	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 23:13	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 23:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 23:13	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 23:13	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 23:13	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 23:13	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 23:13	1

Client Sample ID: MW-55R-202411

Lab Sample ID: 680-258956-10

Date Collected: 11/20/24 15:40

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 23:13	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 23:13	1
Trichloroethene	23		1.0	0.20	ug/L			11/23/24 23:13	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 23:13	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/23/24 23:13*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 23:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/23/24 23:13*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/23/24 23:13*	*1*

Client Sample ID: TB-12-202411

Lab Sample ID: 680-258956-11

Date Collected: 11/19/24 08:00

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 19:49	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 19:49	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 19:49	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 19:49	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 19:49	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 19:49	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 19:49	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 19:49	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 19:49	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 19:49	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/23/24 19:49	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 19:49	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 19:49	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 19:49	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 19:49	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 19:49	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 19:49	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 19:49	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 19:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 19:49	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 19:49	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 19:49	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 19:49	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 19:49	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 19:49	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 19:49	1
Trichloroethene	<0.20		1.0	0.20	ug/L			11/23/24 19:49	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 19:49	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/23/24 19:49*	*1*

Client Sample ID: TB-12-202411

Lab Sample ID: 680-258956-11

Date Collected: 11/19/24 08:00

Matrix: Water

Date Received: 11/21/24 10:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/23/24 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/23/24 19:49*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/23/24 19:49*	*1*

Client Sample ID: DUP-06-202411

Lab Sample ID: 680-258956-12

Date Collected: 11/19/24 10:45

Matrix: Water

Date Received: 11/21/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 23:36	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 23:36	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 23:36	1
Bromoform	**17**		1.0	0.59	ug/L			11/23/24 23:36	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 23:36	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 23:36	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 23:36	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 23:36	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 23:36	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 23:36	1
cis-1,2-Dichloroethene	**0.58**	**J**	1.0	0.25	ug/L			11/23/24 23:36	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 23:36	1
Dibromochloromethane	**1.2**		1.0	0.39	ug/L			11/23/24 23:36	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 23:36	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 23:36	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 23:36	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 23:36	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 23:36	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 23:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 23:36	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 23:36	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 23:36	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 23:36	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 23:36	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 23:36	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 23:36	1
Trichloroethene	**24**		1.0	0.20	ug/L			11/23/24 23:36	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 23:36	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/23/24 23:36*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/23/24 23:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/23/24 23:36*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/23/24 23:36*	*1*

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

Lab Sample ID: MB 680-865960/9
Matrix: Water
Analysis Batch: 865960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			11/23/24 18:52	1
Benzene	<0.27		1.0	0.27	ug/L			11/23/24 18:52	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			11/23/24 18:52	1
Bromoform	<0.59		1.0	0.59	ug/L			11/23/24 18:52	1
Bromomethane	<3.7		5.0	3.7	ug/L			11/23/24 18:52	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			11/23/24 18:52	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			11/23/24 18:52	1
Chloroethane	<4.6		5.0	4.6	ug/L			11/23/24 18:52	1
Chloroform	<0.27		1.0	0.27	ug/L			11/23/24 18:52	1
Chloromethane	<0.54		1.0	0.54	ug/L			11/23/24 18:52	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/23/24 18:52	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			11/23/24 18:52	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/23/24 18:52	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			11/23/24 18:52	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			11/23/24 18:52	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			11/23/24 18:52	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			11/23/24 18:52	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			11/23/24 18:52	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			11/23/24 18:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/23/24 18:52	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			11/23/24 18:52	1
Toluene	<0.25		1.0	0.25	ug/L			11/23/24 18:52	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			11/23/24 18:52	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			11/23/24 18:52	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			11/23/24 18:52	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			11/23/24 18:52	1
Trichloroethene	<0.20		1.0	0.20	ug/L			11/23/24 18:52	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			11/23/24 18:52	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			11/23/24 18:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*11/23/24 18:52*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/23/24 18:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/23/24 18:52*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/23/24 18:52*	*1*

Lab Sample ID: LCS 680-865960/5
Matrix: Water
Analysis Batch: 865960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	241		ug/L		97	67 - 120
Benzene	50.0	52.6		ug/L		105	70 - 130
Bromochloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	52.9		ug/L		106	69 - 129
Bromomethane	50.0	52.6		ug/L		105	28 - 192
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	50.0		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-865960/5
Matrix: Water
Analysis Batch: 865960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	52.4		ug/L		105	31 - 213		
Chloroform			50.0	52.7		ug/L		105	70 - 130		
Chloromethane			50.0	47.2		ug/L		94	59 - 127		
cis-1,2-Dichloroethene			50.0	53.4		ug/L		107	70 - 130		
cis-1,3-Dichloropropene			50.0	54.8		ug/L		110	70 - 130		
Dibromochloromethane			50.0	49.8		ug/L		100	70 - 130		
1,1-Dichloroethane			50.0	53.6		ug/L		107	70 - 130		
1,2-Dichloroethane			50.0	52.6		ug/L		105	70 - 130		
1,1-Dichloroethene			50.0	54.8		ug/L		110	70 - 130		
1,3-Dichloropropene, Total			100	106		ug/L		106	70 - 130		
Ethylbenzene			50.0	51.0		ug/L		102	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	251		ug/L		100	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	53.9		ug/L		108	70 - 130		
Tetrachloroethene			50.0	50.3		ug/L		101	70 - 130		
Toluene			50.0	50.3		ug/L		101	70 - 130		
trans-1,2-Dichloroethene			50.0	52.5		ug/L		105	70 - 130		
trans-1,3-Dichloropropene			50.0	51.6		ug/L		103	70 - 130		
1,1,1-Trichloroethane			50.0	54.5		ug/L		109	70 - 130		
1,1,2-Trichloroethane			50.0	52.4		ug/L		105	70 - 130		
Trichloroethene			50.0	51.1		ug/L		102	70 - 130		
Vinyl chloride			50.0	57.3		ug/L		115	66 - 129		
Xylenes, Total			100	101		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-865960/6
Matrix: Water
Analysis Batch: 865960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	254		ug/L		102	67 - 120	5	30
Benzene			50.0	52.5		ug/L		105	70 - 130	0	30
Bromochloromethane			50.0	52.9		ug/L		106	70 - 130	1	30
Bromoform			50.0	53.1		ug/L		106	69 - 129	0	30
Bromomethane			50.0	52.0		ug/L		104	28 - 192	1	30
Carbon tetrachloride			50.0	51.1		ug/L		102	70 - 130	1	30
Chlorobenzene			50.0	50.0		ug/L		100	70 - 130	0	30
Chloroethane			50.0	51.4		ug/L		103	31 - 213	2	30
Chloroform			50.0	53.1		ug/L		106	70 - 130	1	30
Chloromethane			50.0	47.1		ug/L		94	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	53.7		ug/L		107	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	55.3		ug/L		111	70 - 130	1	20
Dibromochloromethane			50.0	50.6		ug/L		101	70 - 130	1	30
1,1-Dichloroethane			50.0	53.7		ug/L		107	70 - 130	0	30

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

Lab Sample ID: LCSD 680-865960/6
Matrix: Water
Analysis Batch: 865960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	53.4		ug/L		107	70 - 130	1	50
1,1-Dichloroethene			50.0	53.6		ug/L		107	70 - 130	2	20
1,3-Dichloropropene, Total			100	108		ug/L		108	70 - 130	1	30
Ethylbenzene			50.0	50.5		ug/L		101	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	263		ug/L		105	68 - 120	5	30
1,1,2,2-Tetrachloroethane			50.0	54.9		ug/L		110	70 - 130	2	30
Tetrachloroethene			50.0	50.4		ug/L		101	70 - 130	0	30
Toluene			50.0	50.2		ug/L		100	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	52.3		ug/L		105	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	52.5		ug/L		105	70 - 130	2	30
1,1,1-Trichloroethane			50.0	54.5		ug/L		109	70 - 130	0	30
1,1,2-Trichloroethane			50.0	53.3		ug/L		107	70 - 130	2	30
Trichloroethene			50.0	51.0		ug/L		102	70 - 130	0	30
Vinyl chloride			50.0	56.5		ug/L		113	66 - 129	1	30
Xylenes, Total			100	100		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Association Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-258956-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

GC/MS VOA

Analysis Batch: 865960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258956-1	IW-78-202411	Total/NA	Water	8260D	
680-258956-2	MW-204-202411	Total/NA	Water	8260D	
680-258956-3	MW-46R-202411	Total/NA	Water	8260D	
680-258956-4	MW-196-202411	Total/NA	Water	8260D	
680-258956-5	EB-07-202411	Total/NA	Water	8260D	
680-258956-6	TMW-26-202411	Total/NA	Water	8260D	
680-258956-7	TMW-16-202411	Total/NA	Water	8260D	
680-258956-8	TMW-23-202411	Total/NA	Water	8260D	
680-258956-9	MW-194-202411	Total/NA	Water	8260D	
680-258956-10	MW-55R-202411	Total/NA	Water	8260D	
680-258956-11	TB-12-202411	Total/NA	Water	8260D	
680-258956-12	DUP-06-202411	Total/NA	Water	8260D	
MB 680-865960/9	Method Blank	Total/NA	Water	8260D	
LCS 680-865960/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-865960/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-258956-1

Client Sample ID: IW-78-202411
Lab Sample ID: 680-258956-1
Date Collected: 11/19/24 10:40
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 20:12	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-204-202411
Lab Sample ID: 680-258956-2
Date Collected: 11/19/24 12:25
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 20:34	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-46R-202411
Lab Sample ID: 680-258956-3
Date Collected: 11/19/24 14:35
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 20:57	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-196-202411
Lab Sample ID: 680-258956-4
Date Collected: 11/19/24 16:15
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 21:20	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: EB-07-202411
Lab Sample ID: 680-258956-5
Date Collected: 11/19/24 17:00
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 19:26	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: TMW-26-202411
Lab Sample ID: 680-258956-6
Date Collected: 11/20/24 09:40
Matrix: Water
Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 21:42	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: TMW-16-202411

Lab Sample ID: 680-258956-7

Date Collected: 11/20/24 10:40

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 22:05	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: TMW-23-202411

Lab Sample ID: 680-258956-8

Date Collected: 11/20/24 12:05

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 22:28	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-194-202411

Lab Sample ID: 680-258956-9

Date Collected: 11/20/24 14:05

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 22:50	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: MW-55R-202411

Lab Sample ID: 680-258956-10

Date Collected: 11/20/24 15:40

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 23:13	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: TB-12-202411

Lab Sample ID: 680-258956-11

Date Collected: 11/19/24 08:00

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 19:49	MLL	EET SAV
	Instrument ID: CMSAB									

Client Sample ID: DUP-06-202411

Lab Sample ID: 680-258956-12

Date Collected: 11/19/24 10:45

Matrix: Water

Date Received: 11/21/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	865960	11/23/24 23:36	MLL	EET SAV
	Instrument ID: CMSAB									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-258956-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-258956-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

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

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

RESAMPLING

Chain of Custody Record

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244- ATLANTA

Client Information	Sampler: M. Barley (Ramboll)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone: 8122302688	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 2
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:

Address: 10851 Mastin Boulevard, Suite 100	Due Date Requested:
City: Overland Park	TAT Requested (days): EXPEDITED
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)
Email: dmeyer@ramboll.com	PO #: 1940108132
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #:
Site:	SSOW#:

Analysis Requested

Preservation Codes: A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29) - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
IW-78-202411	11/19/24	1040	G	W	N	N	X		
MW-204-202411		1225							
MW-46R-202411		1435							
MW-196-202411		1615							
EB-07-202411		1700							
TMW-26-202411	11/20/24	0940	G	W	N	N	X		
TMW-16-202411		1040							
TMW-23-202411		1205							
MW-194-202411		1405							
MW-55R-202411		1540							
TB-12-202411	11/19/24	0800	-	-					

680-258956 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: M. Barley (Ramboll)	Date/Time: 11/20/2024 1700	Company: Ramboll	Received by:	Date/Time: 11/21/24 1030	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
d by:	Date/Time:	Company	Received by:	Date/Time:	Company

y Seals Intact: Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.2/4.2

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

244- ATLANTA

Client Information	Sampler: M. Barley (Ramboll)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone: 812-230-2688	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 2 of 2
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 10851 Mastin Boulevard, Suite 100	Due Date Requested:			
City: Overland Park	TAT Requested (days): Expedited			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #: 1940108132			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29) - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
DUP-06-202411	11/19/2024	1645	G	W	N	N	X		
				MS					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/20/24; 1700	Ramboll	[signature]	11/21/24 1030	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2/4.2

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-258956-1

Login Number: 258956

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1 vial for MW-196 & MW-55R rec'd broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
10851 Mastin Boulevard
Suite 100
Overland Park, Kansas 66210

Generated 12/16/2024 4:19:40 PM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-259310-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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 Southeast, LLC Project Manager.

Authorization

Generated
12/16/2024 4:19:40 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Qualifiers

GC/MS VOA

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

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-259310-1	MW-214-202412	Water	12/03/24 10:00	12/04/24 08:12
680-259310-2	MW-216-202412	Water	12/03/24 12:20	12/04/24 08:12
680-259310-3	MW-217-202412	Water	12/03/24 14:55	12/04/24 08:12
680-259310-4	MW-218-202412	Water	12/03/24 15:05	12/04/24 08:12
680-259310-5	MW-219-202412	Water	12/03/24 16:50	12/04/24 08:12
680-259310-6	TB-01-202412	Water	12/03/24 08:00	12/04/24 08:12

Job ID: 680-259310-1 Eurofins Savannah

Job Narrative
680-259310-1

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.

Receipt
The samples were received on 12/4/2024 8:12 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 3.3°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-867635 recovered outside control limits for the following analytes: Acetone and 4-Methyl-2-pentanone (MIBK). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for analytical batch 680-867635 contained Acetone above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-218-202412 (680-259310-4) and MW-219-202412 (680-259310-5). Elevated reporting limits (RLs) are provided.

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

GC VOA
Method RSK_175: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH at the time of analysis was 2: MW-217-202412 (680-259310-3).

Method RSK_175: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH at the time of analysis was 3: MW-219-202412 (680-259310-5).

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

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

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

General Chemistry
Method 3500_F+2_D_Calc: The method blank for analytical batch 680-867363 contained Ferrous Iron above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

Method 353.2_Nitrite: The method blank for analytical batch 680-867367 contained Nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

Method 353.2_Pres: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-867317 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259310-1

Client Sample ID: MW-214-202412 — Lab Sample ID: 680-259310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	1.0		1.0	0.33	ug/L	1		8260D	Total/NA
Trichloroethene	28		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA
Methane - DL	4000		100	60	ug/L	20		RSK-175	Total/NA
Sulfate	3.7		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Acetic acid	1.6		0.50	0.18	mg/L	1		VFA-HPLC	Total/NA
Propionic acid	0.43	J	0.50	0.065	mg/L	1		VFA-HPLC	Total/NA
Iron	17		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.060	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.045	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	2.6		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.015	J	0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	12	HF B	1.0	0.25	mg/L	10		SM 3500 FE D	Total/NA

Client Sample ID: MW-216-202412 — Lab Sample ID: 680-259310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		1.0	0.25	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	2.0		1.0	0.33	ug/L	1		8260D	Total/NA
Vinyl chloride	0.79	J	1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene - DL	620		5.0	1.0	ug/L	5		8260D	Total/NA
Ethane	4.6	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	3.7	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane	44		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	4.8		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Iron	1.7		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.30		0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.020	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.1		1.0	0.50	mg/L	1		5310 B-2011	Total/NA
Nitrate as N	0.28		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	1.5	HF B	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-217-202412 — Lab Sample ID: 680-259310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.30	J	1.0	0.20	ug/L	1		8260D	Total/NA
Methane	37		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	42		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Iron	1.2		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.015	J	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.015	J	0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	0.50	HF B	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-218-202412 — Lab Sample ID: 680-259310-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	54		10	2.5	ug/L	10		8260D	Total/NA
1,1-Dichloroethene	9.0	J	10	3.3	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-218-202412 (Continued)
Lab Sample ID: 680-259310-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1300		10	2.0	ug/L	10		8260D	Total/NA
Ethane	5.0		5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	6.7		5.0	1.0	ug/L	1		RSK-175	Total/NA
Methane	4.5	J	5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	9.7		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Iron	0.25		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	2.1	F1	0.20	0.020	mg/L	2		353.2	Total/NA
Nitrite as N	0.072	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	2.0		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	0.026	J HF B	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: MW-219-202412
Lab Sample ID: 680-259310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	87		5.0	1.3	ug/L	5		8260D	Total/NA
1,1-Dichloroethene	6.6		5.0	1.7	ug/L	5		8260D	Total/NA
Tetrachloroethene	3.4	J	5.0	1.8	ug/L	5		8260D	Total/NA
Trichloroethene - DL	960		10	2.0	ug/L	10		8260D	Total/NA
Ethane	2.2	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Ethylene	2.8	J	5.0	1.0	ug/L	1		RSK-175	Total/NA
Sulfate	8.8		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Iron	0.15		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	2.0		0.20	0.020	mg/L	2		353.2	Total/NA
Nitrite as N	0.031	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	2.0		0.10	0.010	mg/L	1		Nitrate by calc	Total/NA
Ferrous Iron	0.029	J HF B	0.10	0.025	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: TB-01-202412
Lab Sample ID: 680-259310-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-214-202412
Date Collected: 12/03/24 10:00
Date Received: 12/04/24 08:12

Lab Sample ID: 680-259310-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7	*+	10	3.7	ug/L			12/06/24 13:38	1
Benzene	<0.27		1.0	0.27	ug/L			12/06/24 13:38	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/06/24 13:38	1
Bromoform	<0.59		1.0	0.59	ug/L			12/06/24 13:38	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/06/24 13:38	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/06/24 13:38	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/06/24 13:38	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/06/24 13:38	1
Chloroform	<0.27		1.0	0.27	ug/L			12/06/24 13:38	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/06/24 13:38	1
cis-1,2-Dichloroethene	**47**		1.0	0.25	ug/L			12/06/24 13:38	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/06/24 13:38	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/06/24 13:38	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/06/24 13:38	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/06/24 13:38	1
1,1-Dichloroethene	**1.0**		1.0	0.33	ug/L			12/06/24 13:38	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/06/24 13:38	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/06/24 13:38	1
4-Methyl-2-pentanone (MIBK)	<2.7	*+	10	2.7	ug/L			12/06/24 13:38	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/24 13:38	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/06/24 13:38	1
Toluene	<0.25		1.0	0.25	ug/L			12/06/24 13:38	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/06/24 13:38	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/06/24 13:38	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/06/24 13:38	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/06/24 13:38	1
Trichloroethene	**28**		1.0	0.20	ug/L			12/06/24 13:38	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			12/06/24 13:38	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/06/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/06/24 13:38*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/06/24 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*12/06/24 13:38*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/06/24 13:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:08	1
Ethane	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:08	1
Ethylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*54*		*43 - 133*	*12/10/24 11:01*	*12/11/24 13:08*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4000**		100	60	ug/L		12/12/24 14:20	12/12/24 23:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*92*		*43 - 133*	*12/12/24 14:20*	*12/12/24 23:20*	*20*

Client Sample ID: MW-214-202412

Lab Sample ID: 680-259310-1

Date Collected: 12/03/24 10:00

Matrix: Water

Date Received: 12/04/24 08:12

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3.7**		1.0	0.40	mg/L			12/14/24 19:33	1

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	**1.6**		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	**0.43**	**J**	0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**17**		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.060**	**J**	0.10	0.010	mg/L			12/04/24 11:38	1
Nitrite as N (EPA 353.2)	**0.045**	**J B**	0.10	0.010	mg/L			12/04/24 14:26	1
Total Organic Carbon (SM 5310 B-2011)	**2.6**		1.0	0.50	mg/L			12/06/24 12:28	1
Nitrate as N (SM Nitrate by calc)	**0.015**	**J**	0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	**12**	**HF B**	1.0	0.25	mg/L			12/04/24 13:42	10

Client Sample ID: MW-216-202412

Lab Sample ID: 680-259310-2

Date Collected: 12/03/24 12:20

Matrix: Water

Date Received: 12/04/24 08:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7	*+	10	3.7	ug/L			12/06/24 13:59	1
Benzene	<0.27		1.0	0.27	ug/L			12/06/24 13:59	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/06/24 13:59	1
Bromoform	<0.59		1.0	0.59	ug/L			12/06/24 13:59	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/06/24 13:59	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/06/24 13:59	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/06/24 13:59	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/06/24 13:59	1
Chloroform	<0.27		1.0	0.27	ug/L			12/06/24 13:59	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/06/24 13:59	1
cis-1,2-Dichloroethene	**38**		1.0	0.25	ug/L			12/06/24 13:59	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/06/24 13:59	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/06/24 13:59	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/06/24 13:59	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/06/24 13:59	1
1,1-Dichloroethene	**2.0**		1.0	0.33	ug/L			12/06/24 13:59	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/06/24 13:59	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/06/24 13:59	1
4-Methyl-2-pentanone (MIBK)	<2.7	*+	10	2.7	ug/L			12/06/24 13:59	1

Client Sample ID: MW-216-202412
Date Collected: 12/03/24 12:20
Date Received: 12/04/24 08:12

Lab Sample ID: 680-259310-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/24 13:59	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/06/24 13:59	1
Toluene	<0.25		1.0	0.25	ug/L			12/06/24 13:59	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/06/24 13:59	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/06/24 13:59	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/06/24 13:59	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/06/24 13:59	1
Vinyl chloride	**0.79**	**J**	1.0	0.40	ug/L			12/06/24 13:59	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/06/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/06/24 13:59*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/06/24 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*12/06/24 13:59*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*12/06/24 13:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**620**		5.0	1.0	ug/L			12/09/24 19:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/09/24 19:11*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/09/24 19:11*	*5*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*12/09/24 19:11*	*5*
Toluene-d8 (Surr)	*93*		*70 - 130*		*12/09/24 19:11*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:27	1
Ethane	**4.6**	**J**	5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:27	1
Ethylene	**3.7**	**J**	5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:27	1
Methane	**44**		5.0	3.0	ug/L		12/10/24 11:01	12/11/24 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*60*		*43 - 133*	*12/10/24 11:01*	*12/11/24 13:27*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.8**		1.0	0.40	mg/L			12/14/24 19:43	1

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

Client Sample ID: MW-216-202412

Lab Sample ID: 680-259310-2

Date Collected: 12/03/24 12:20

Matrix: Water

Date Received: 12/04/24 08:12

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.7		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.30		0.10	0.010	mg/L			12/04/24 11:37	1
Nitrite as N (EPA 353.2)	0.020	J B	0.10	0.010	mg/L			12/04/24 14:28	1
Total Organic Carbon (SM 5310 B-2011)	1.1		1.0	0.50	mg/L			12/06/24 13:01	1
Nitrate as N (SM Nitrate by calc)	0.28		0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	1.5	HF B	0.10	0.025	mg/L			12/04/24 12:00	1

Client Sample ID: MW-217-202412

Lab Sample ID: 680-259310-3

Date Collected: 12/03/24 14:55

Matrix: Water

Date Received: 12/04/24 08:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7	*+	10	3.7	ug/L			12/06/24 14:20	1
Benzene	<0.27		1.0	0.27	ug/L			12/06/24 14:20	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/06/24 14:20	1
Bromoform	<0.59		1.0	0.59	ug/L			12/06/24 14:20	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/06/24 14:20	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/06/24 14:20	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/06/24 14:20	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/06/24 14:20	1
Chloroform	<0.27		1.0	0.27	ug/L			12/06/24 14:20	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/06/24 14:20	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/06/24 14:20	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/06/24 14:20	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/06/24 14:20	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/06/24 14:20	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/06/24 14:20	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/06/24 14:20	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/06/24 14:20	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/06/24 14:20	1
4-Methyl-2-pentanone (MIBK)	<2.7	*+	10	2.7	ug/L			12/06/24 14:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/24 14:20	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/06/24 14:20	1
Toluene	2.9		1.0	0.25	ug/L			12/06/24 14:20	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/06/24 14:20	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/06/24 14:20	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/06/24 14:20	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/06/24 14:20	1
Trichloroethene	0.30	J	1.0	0.20	ug/L			12/09/24 14:37	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/06/24 14:20	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/06/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/06/24 14:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*12/09/24 14:37*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/06/24 14:20*	*1*

Client Sample ID: MW-217-202412

Lab Sample ID: 680-259310-3

Date Collected: 12/03/24 14:55

Matrix: Water

Date Received: 12/04/24 08:12

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/09/24 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*12/06/24 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*12/09/24 14:37*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/06/24 14:20*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/09/24 14:37*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:45	1
Ethane	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:45	1
Ethylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 13:45	1
Methane	**37**		5.0	3.0	ug/L		12/10/24 11:01	12/11/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*53*		*43 - 133*	*12/10/24 11:01*	*12/11/24 13:45*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**42**		1.0	0.40	mg/L			12/14/24 19:53	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1.2**		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**0.015**	**J**	0.10	0.010	mg/L			12/04/24 11:51	1
Nitrite as N (EPA 353.2)	<0.010		0.10	0.010	mg/L			12/04/24 14:27	1
Nitrate as N (SM Nitrate by calc)	**0.015**	**J**	0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	**0.50**	**HF B**	0.10	0.025	mg/L			12/04/24 12:00	1

Client Sample ID: MW-218-202412

Lab Sample ID: 680-259310-4

Date Collected: 12/03/24 15:05

Matrix: Water

Date Received: 12/04/24 08:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<37	*+	100	37	ug/L			12/06/24 16:10	10
Benzene	<2.7		10	2.7	ug/L			12/06/24 16:10	10
Bromochloromethane	<3.4		10	3.4	ug/L			12/06/24 16:10	10
Bromoform	<5.9		10	5.9	ug/L			12/06/24 16:10	10
Bromomethane	<37		50	37	ug/L			12/06/24 16:10	10
Carbon tetrachloride	<3.0		10	3.0	ug/L			12/06/24 16:10	10
Chlorobenzene	<1.5		10	1.5	ug/L			12/06/24 16:10	10
Chloroethane	<46		50	46	ug/L			12/06/24 16:10	10
Chloroform	<2.7		10	2.7	ug/L			12/06/24 16:10	10
Chloromethane	<5.4		10	5.4	ug/L			12/06/24 16:10	10
cis-1,2-Dichloroethene	**54**		10	2.5	ug/L			12/06/24 16:10	10
cis-1,3-Dichloropropene	<2.6		10	2.6	ug/L			12/06/24 16:10	10
Dibromochloromethane	<3.9		10	3.9	ug/L			12/06/24 16:10	10
1,1-Dichloroethane	<3.3		10	3.3	ug/L			12/06/24 16:10	10

Client Sample ID: MW-218-202412
Date Collected: 12/03/24 15:05
Date Received: 12/04/24 08:12

Lab Sample ID: 680-259310-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<2.5		10	2.5	ug/L			12/06/24 16:10	10
1,1-Dichloroethene	**9.0**	**J**	10	3.3	ug/L			12/06/24 16:10	10
1,3-Dichloropropene, Total	<4.8		20	4.8	ug/L			12/06/24 16:10	10
Ethylbenzene	<2.0		10	2.0	ug/L			12/06/24 16:10	10
4-Methyl-2-pentanone (MIBK)	<27	*+	100	27	ug/L			12/06/24 16:10	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			12/06/24 16:10	10
Tetrachloroethene	<3.5		10	3.5	ug/L			12/06/24 16:10	10
Toluene	<2.5		10	2.5	ug/L			12/06/24 16:10	10
trans-1,2-Dichloroethene	<3.4		10	3.4	ug/L			12/06/24 16:10	10
trans-1,3-Dichloropropene	<2.3		10	2.3	ug/L			12/06/24 16:10	10
1,1,1-Trichloroethane	<2.1		10	2.1	ug/L			12/06/24 16:10	10
1,1,2-Trichloroethane	<3.2		10	3.2	ug/L			12/06/24 16:10	10
Trichloroethene	**1300**		10	2.0	ug/L			12/06/24 16:10	10
Vinyl chloride	<4.0		10	4.0	ug/L			12/06/24 16:10	10
Xylenes, Total	<2.3		10	2.3	ug/L			12/06/24 16:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/06/24 16:10*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/06/24 16:10*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*12/06/24 16:10*	*10*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/06/24 16:10*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:04	1
Ethane	**5.0**		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:04	1
Ethylene	**6.7**		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:04	1
Methane	**4.5**	**J**	5.0	3.0	ug/L		12/10/24 11:01	12/11/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*51*		*43 - 133*	*12/10/24 11:01*	*12/11/24 14:04*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**9.7**		1.0	0.40	mg/L			12/14/24 20:03	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.25**		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**2.1**	**F1**	0.20	0.020	mg/L			12/04/24 11:46	2
Nitrite as N (EPA 353.2)	**0.072**	**J B**	0.10	0.010	mg/L			12/04/24 14:24	1
Nitrate as N (SM Nitrate by calc)	**2.0**		0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	**0.026**	**J HF B**	0.10	0.025	mg/L			12/04/24 12:00	1

Client Sample ID: MW-219-202412
Date Collected: 12/03/24 16:50
Date Received: 12/04/24 08:12

Lab Sample ID: 680-259310-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19	*+	50	19	ug/L			12/06/24 16:34	5
Benzene	<1.4		5.0	1.4	ug/L			12/06/24 16:34	5
Bromochloromethane	<1.7		5.0	1.7	ug/L			12/06/24 16:34	5
Bromoform	<3.0		5.0	3.0	ug/L			12/06/24 16:34	5
Bromomethane	<19		25	19	ug/L			12/06/24 16:34	5
Carbon tetrachloride	<1.5		5.0	1.5	ug/L			12/06/24 16:34	5
Chlorobenzene	<0.75		5.0	0.75	ug/L			12/06/24 16:34	5
Chloroethane	<23		25	23	ug/L			12/06/24 16:34	5
Chloroform	<1.4		5.0	1.4	ug/L			12/06/24 16:34	5
Chloromethane	<2.7		5.0	2.7	ug/L			12/06/24 16:34	5
cis-1,2-Dichloroethene	**87**		5.0	1.3	ug/L			12/06/24 16:34	5
cis-1,3-Dichloropropene	<1.3		5.0	1.3	ug/L			12/06/24 16:34	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			12/06/24 16:34	5
1,1-Dichloroethane	<1.7		5.0	1.7	ug/L			12/06/24 16:34	5
1,2-Dichloroethane	<1.3		5.0	1.3	ug/L			12/06/24 16:34	5
1,1-Dichloroethene	**6.6**		5.0	1.7	ug/L			12/06/24 16:34	5
1,3-Dichloropropene, Total	<2.4		10	2.4	ug/L			12/06/24 16:34	5
Ethylbenzene	<1.0		5.0	1.0	ug/L			12/06/24 16:34	5
4-Methyl-2-pentanone (MIBK)	<14	*+	50	14	ug/L			12/06/24 16:34	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			12/06/24 16:34	5
Tetrachloroethene	**3.4**	**J**	5.0	1.8	ug/L			12/06/24 16:34	5
Toluene	<1.3		5.0	1.3	ug/L			12/06/24 16:34	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			12/06/24 16:34	5
trans-1,3-Dichloropropene	<1.2		5.0	1.2	ug/L			12/06/24 16:34	5
1,1,1-Trichloroethane	<1.1		5.0	1.1	ug/L			12/06/24 16:34	5
1,1,2-Trichloroethane	<1.6		5.0	1.6	ug/L			12/06/24 16:34	5
Vinyl chloride	<2.0		5.0	2.0	ug/L			12/06/24 16:34	5
Xylenes, Total	<1.2		5.0	1.2	ug/L			12/06/24 16:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/06/24 16:34*	*5*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*12/06/24 16:34*	*5*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*12/06/24 16:34*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/06/24 16:34*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**960**		10	2.0	ug/L			12/09/24 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*12/09/24 19:35*	*10*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/09/24 19:35*	*10*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*12/09/24 19:35*	*10*
Toluene-d8 (Surr)	*92*		*70 - 130*		*12/09/24 19:35*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:23	1
Ethane	**2.2**	**J**	5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:23	1
Ethylene	**2.8**	**J**	5.0	1.0	ug/L		12/10/24 11:01	12/11/24 14:23	1

Client Sample ID: MW-219-202412

Lab Sample ID: 680-259310-5

Date Collected: 12/03/24 16:50

Matrix: Water

Date Received: 12/04/24 08:12

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<3.0		5.0	3.0	ug/L		12/10/24 11:01	12/11/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*55*		*43 - 133*	*12/10/24 11:01*	*12/11/24 14:23*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**8.8**		1.0	0.40	mg/L			12/14/24 20:12	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.15**		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	**2.0**		0.20	0.020	mg/L			12/04/24 11:40	2
Nitrite as N (EPA 353.2)	**0.031**	**J B**	0.10	0.010	mg/L			12/04/24 14:25	1
Nitrate as N (SM Nitrate by calc)	**2.0**		0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	**0.029**	**J HF B**	0.10	0.025	mg/L			12/04/24 12:00	1

Client Sample ID: TB-01-202412

Lab Sample ID: 680-259310-6

Date Collected: 12/03/24 08:00

Matrix: Water

Date Received: 12/04/24 08:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7	*+	10	3.7	ug/L			12/06/24 12:45	1
Benzene	<0.27		1.0	0.27	ug/L			12/06/24 12:45	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/06/24 12:45	1
Bromoform	<0.59		1.0	0.59	ug/L			12/06/24 12:45	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/06/24 12:45	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/06/24 12:45	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/06/24 12:45	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/06/24 12:45	1
Chloroform	<0.27		1.0	0.27	ug/L			12/06/24 12:45	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/06/24 12:45	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/06/24 12:45	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/06/24 12:45	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/06/24 12:45	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/06/24 12:45	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/06/24 12:45	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/06/24 12:45	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/06/24 12:45	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/06/24 12:45	1
4-Methyl-2-pentanone (MIBK)	<2.7	*+	10	2.7	ug/L			12/06/24 12:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/24 12:45	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/06/24 12:45	1
Toluene	<0.25		1.0	0.25	ug/L			12/06/24 12:45	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/06/24 12:45	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/06/24 12:45	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/06/24 12:45	1

Client Sample ID: TB-01-202412
Date Collected: 12/03/24 08:00
Date Received: 12/04/24 08:12

Lab Sample ID: 680-259310-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/06/24 12:45	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/06/24 12:45	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/06/24 12:45	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/06/24 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/06/24 12:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*12/06/24 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*12/06/24 12:45*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/06/24 12:45*	*1*

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

Lab Sample ID: MB 680-867635/9
Matrix: Water
Analysis Batch: 867635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.99	J	10	3.7	ug/L			12/06/24 12:09	1
Benzene	<0.27		1.0	0.27	ug/L			12/06/24 12:09	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/06/24 12:09	1
Bromoform	<0.59		1.0	0.59	ug/L			12/06/24 12:09	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/06/24 12:09	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/06/24 12:09	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/06/24 12:09	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/06/24 12:09	1
Chloroform	<0.27		1.0	0.27	ug/L			12/06/24 12:09	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/06/24 12:09	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/06/24 12:09	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/06/24 12:09	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/06/24 12:09	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/06/24 12:09	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/06/24 12:09	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/06/24 12:09	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/06/24 12:09	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/06/24 12:09	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/06/24 12:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/24 12:09	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/06/24 12:09	1
Toluene	<0.25		1.0	0.25	ug/L			12/06/24 12:09	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/06/24 12:09	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/06/24 12:09	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/06/24 12:09	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/06/24 12:09	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/06/24 12:09	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/06/24 12:09	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/06/24 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/06/24 12:09*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*12/06/24 12:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*12/06/24 12:09*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/06/24 12:09*	*1*

Lab Sample ID: LCS 680-867635/4
Matrix: Water
Analysis Batch: 867635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	320	*+	ug/L		128	67 - 120
Benzene	50.0	53.5		ug/L		107	70 - 130
Bromochloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	54.2		ug/L		108	69 - 129
Bromomethane	50.0	45.2		ug/L		90	28 - 192
Carbon tetrachloride	50.0	52.8		ug/L		106	70 - 130
Chlorobenzene	50.0	50.2		ug/L		100	70 - 130

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

Lab Sample ID: LCS 680-867635/4
Matrix: Water
Analysis Batch: 867635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	47.8		ug/L		96	31 - 213		
Chloroform			50.0	53.0		ug/L		106	70 - 130		
Chloromethane			50.0	59.1		ug/L		118	59 - 127		
cis-1,2-Dichloroethene			50.0	47.9		ug/L		96	70 - 130		
cis-1,3-Dichloropropene			50.0	51.1		ug/L		102	70 - 130		
Dibromochloromethane			50.0	48.7		ug/L		97	70 - 130		
1,1-Dichloroethane			50.0	53.2		ug/L		106	70 - 130		
1,2-Dichloroethane			50.0	49.7		ug/L		99	70 - 130		
1,1-Dichloroethene			50.0	53.4		ug/L		107	70 - 130		
1,3-Dichloropropene, Total			100	105		ug/L		105	70 - 130		
Ethylbenzene			50.0	53.1		ug/L		106	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	332	*+	ug/L		133	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	58.5		ug/L		117	70 - 130		
Tetrachloroethene			50.0	50.8		ug/L		102	70 - 130		
Toluene			50.0	53.2		ug/L		106	70 - 130		
trans-1,2-Dichloroethene			50.0	50.2		ug/L		100	70 - 130		
trans-1,3-Dichloropropene			50.0	53.5		ug/L		107	70 - 130		
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	70 - 130		
1,1,2-Trichloroethane			50.0	53.9		ug/L		108	70 - 130		
Trichloroethene			50.0	48.8		ug/L		98	70 - 130		
Vinyl chloride			50.0	47.4		ug/L		95	66 - 129		
Xylenes, Total			100	104		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-867635/5
Matrix: Water
Analysis Batch: 867635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	313	*+	ug/L		125	67 - 120	2	30
Benzene			50.0	52.7		ug/L		105	70 - 130	1	30
Bromochloromethane			50.0	50.0		ug/L		100	70 - 130	4	30
Bromoform			50.0	55.1		ug/L		110	69 - 129	2	30
Bromomethane			50.0	43.6		ug/L		87	28 - 192	4	30
Carbon tetrachloride			50.0	53.6		ug/L		107	70 - 130	1	30
Chlorobenzene			50.0	50.9		ug/L		102	70 - 130	2	30
Chloroethane			50.0	47.5		ug/L		95	31 - 213	1	30
Chloroform			50.0	51.6		ug/L		103	70 - 130	3	30
Chloromethane			50.0	57.2		ug/L		114	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	48.3		ug/L		97	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.0		ug/L		102	70 - 130	0	20
Dibromochloromethane			50.0	47.8		ug/L		96	70 - 130	2	30
1,1-Dichloroethane			50.0	52.5		ug/L		105	70 - 130	1	30

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

Lab Sample ID: LCSD 680-867635/5
Matrix: Water
Analysis Batch: 867635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	0	50
1,1-Dichloroethene			50.0	55.7		ug/L		111	70 - 130	4	20
1,3-Dichloropropene, Total			100	104		ug/L		104	70 - 130	1	30
Ethylbenzene			50.0	55.1		ug/L		110	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)			250	325	*+	ug/L		130	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	60.1		ug/L		120	70 - 130	3	30
Tetrachloroethene			50.0	53.0		ug/L		106	70 - 130	4	30
Toluene			50.0	52.5		ug/L		105	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	49.7		ug/L		99	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	52.6		ug/L		105	70 - 130	2	30
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	70 - 130	1	30
1,1,2-Trichloroethane			50.0	53.6		ug/L		107	70 - 130	1	30
Trichloroethene			50.0	49.0		ug/L		98	70 - 130	0	30
Vinyl chloride			50.0	48.2		ug/L		96	66 - 129	2	30
Xylenes, Total			100	107		ug/L		107	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 680-867936/9
Matrix: Water
Analysis Batch: 867936

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			12/09/24 12:29	1
Benzene	<0.27		1.0	0.27	ug/L			12/09/24 12:29	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/09/24 12:29	1
Bromoform	<0.59		1.0	0.59	ug/L			12/09/24 12:29	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/09/24 12:29	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/09/24 12:29	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/09/24 12:29	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/09/24 12:29	1
Chloroform	<0.27		1.0	0.27	ug/L			12/09/24 12:29	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/09/24 12:29	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/09/24 12:29	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/09/24 12:29	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/09/24 12:29	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/09/24 12:29	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/09/24 12:29	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/09/24 12:29	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/09/24 12:29	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/09/24 12:29	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/09/24 12:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/09/24 12:29	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/09/24 12:29	1

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

Lab Sample ID: MB 680-867936/9
Matrix: Water
Analysis Batch: 867936

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			12/09/24 12:29	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/09/24 12:29	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/09/24 12:29	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/09/24 12:29	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/09/24 12:29	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/09/24 12:29	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/09/24 12:29	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/09/24 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*12/09/24 12:29*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/09/24 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*12/09/24 12:29*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/09/24 12:29*	*1*

Lab Sample ID: LCS 680-867936/4
Matrix: Water
Analysis Batch: 867936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	221		ug/L		89	67 - 120
Benzene	50.0	50.5		ug/L		101	70 - 130
Bromochloromethane	50.0	46.3		ug/L		93	70 - 130
Bromoform	50.0	50.2		ug/L		100	69 - 129
Bromomethane	50.0	47.0		ug/L		94	28 - 192
Carbon tetrachloride	50.0	54.7		ug/L		109	70 - 130
Chlorobenzene	50.0	47.6		ug/L		95	70 - 130
Chloroethane	50.0	42.9		ug/L		86	31 - 213
Chloroform	50.0	46.7		ug/L		93	70 - 130
Chloromethane	50.0	50.9		ug/L		102	59 - 127
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	70 - 130
Dibromochloromethane	50.0	48.5		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
1,3-Dichloropropene, Total	100	101		ug/L		101	70 - 130
Ethylbenzene	50.0	49.7		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	250	257		ug/L		103	68 - 120
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	70 - 130
Tetrachloroethene	50.0	49.2		ug/L		98	70 - 130
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	47.1		ug/L		94	70 - 130
trans-1,3-Dichloropropene	50.0	50.0		ug/L		100	70 - 130
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	70 - 130
Trichloroethene	50.0	52.3		ug/L		105	70 - 130
Vinyl chloride	50.0	50.0		ug/L		100	66 - 129

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

Lab Sample ID: LCS 680-867936/4
Matrix: Water
Analysis Batch: 867936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	99.4		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-867936/5
Matrix: Water
Analysis Batch: 867936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	230		ug/L		92	67 - 120	4	30
Benzene			50.0	50.4		ug/L		101	70 - 130	0	30
Bromochloromethane			50.0	47.1		ug/L		94	70 - 130	2	30
Bromoform			50.0	53.2		ug/L		106	69 - 129	6	30
Bromomethane			50.0	44.7		ug/L		89	28 - 192	5	30
Carbon tetrachloride			50.0	54.8		ug/L		110	70 - 130	0	30
Chlorobenzene			50.0	48.5		ug/L		97	70 - 130	2	30
Chloroethane			50.0	41.7		ug/L		83	31 - 213	3	30
Chloroform			50.0	46.4		ug/L		93	70 - 130	1	30
Chloromethane			50.0	48.7		ug/L		97	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	48.4		ug/L		97	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	51.2		ug/L		102	70 - 130	1	20
Dibromochloromethane			50.0	50.1		ug/L		100	70 - 130	3	30
1,1-Dichloroethane			50.0	48.0		ug/L		96	70 - 130	2	30
1,2-Dichloroethane			50.0	48.2		ug/L		96	70 - 130	1	50
1,1-Dichloroethene			50.0	46.7		ug/L		93	70 - 130	3	20
1,3-Dichloropropene, Total			100	101		ug/L		101	70 - 130	1	30
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	261		ug/L		105	68 - 120	2	30
1,1,2,2-Tetrachloroethane			50.0	53.5		ug/L		107	70 - 130	5	30
Tetrachloroethene			50.0	49.0		ug/L		98	70 - 130	0	30
Toluene			50.0	46.8		ug/L		94	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	46.4		ug/L		93	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	1	30
1,1,1-Trichloroethane			50.0	50.6		ug/L		101	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.9		ug/L		102	70 - 130	2	30
Trichloroethene			50.0	52.8		ug/L		106	70 - 130	1	30
Vinyl chloride			50.0	47.8		ug/L		96	66 - 129	5	30
Xylenes, Total			100	100		ug/L		100	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-584175/1-A
Matrix: Water
Analysis Batch: 584115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584175

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 08:46	1
Ethane	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 08:46	1
Ethylene	<1.0		5.0	1.0	ug/L		12/10/24 11:01	12/11/24 08:46	1
Methane	<3.0		5.0	3.0	ug/L		12/10/24 11:01	12/11/24 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*100*		*43 - 133*	*12/10/24 11:01*	*12/11/24 08:46*	*1*

Lab Sample ID: LCS 410-584175/2-A
Matrix: Water
Analysis Batch: 584115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584175

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	55.3		ug/L		106	61 - 148
Ethane	61.7	62.4		ug/L		101	85 - 115
Ethylene	58.3	60.2		ug/L		103	83 - 115
Methane	59.8	62.5		ug/L		105	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*97*		*43 - 133*

Lab Sample ID: LCSD 410-584175/3-A
Matrix: Water
Analysis Batch: 584115

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 584175

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene	52.1	54.1		ug/L		104	61 - 148	2	20
Ethane	61.7	65.4		ug/L		106	85 - 115	5	20
Ethylene	58.3	62.7		ug/L		108	83 - 115	4	20
Methane	59.8	64.6		ug/L		108	85 - 115	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*103*		*43 - 133*

Lab Sample ID: MB 410-585408/1-A
Matrix: Water
Analysis Batch: 585233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/12/24 14:20	12/12/24 21:08	1
Ethane	<1.0		5.0	1.0	ug/L		12/12/24 14:20	12/12/24 21:08	1
Ethylene	<1.0		5.0	1.0	ug/L		12/12/24 14:20	12/12/24 21:08	1
Methane	<3.0		5.0	3.0	ug/L		12/12/24 14:20	12/12/24 21:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*98*		*43 - 133*	*12/12/24 14:20*	*12/12/24 21:08*	*1*

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 410-585408/2-A
Matrix: Water
Analysis Batch: 585233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585408

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetylene			52.1	54.8		ug/L		105	61 - 148		
Ethane			61.7	61.4		ug/L		99	85 - 115		
Ethylene			58.3	58.9		ug/L		101	83 - 115		
Methane			59.8	61.0		ug/L		102	85 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*97*		*43 - 133*

Lab Sample ID: LCSD 410-585408/3-A
Matrix: Water
Analysis Batch: 585233

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 585408

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetylene			52.1	54.2		ug/L		104	61 - 148	1	20
Ethane			61.7	60.9		ug/L		99	85 - 115	1	20
Ethylene			58.3	58.3		ug/L		100	83 - 115	1	20
Methane			59.8	60.4		ug/L		101	85 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Propene	*97*		*43 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-868974/33
Matrix: Water
Analysis Batch: 868974

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.40		1.0	0.40	mg/L			12/14/24 18:08	1

Lab Sample ID: LCS 680-868974/34
Matrix: Water
Analysis Batch: 868974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	10.1		mg/L		101	90 - 110		

Lab Sample ID: LCSD 680-868974/35
Matrix: Water
Analysis Batch: 868974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			10.0	10.1		mg/L		101	90 - 110	0	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-125760/1
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

Lab Sample ID: LCS 670-125760/3
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	25.0		mg/L		125	60 - 140
Butyric acid	20.0	16.8		mg/L		84	60 - 140
Formic acid	20.0	23.4		mg/L		117	60 - 140
Hexanoic acid	20.0	13.9		mg/L		70	60 - 140
Pentanoic acid	20.0	19.0		mg/L		95	60 - 140
Propionic acid	20.0	17.0		mg/L		85	60 - 140
Pyruvic Acid	20.0	23.8		mg/L		119	60 - 140

Lab Sample ID: LCSD 670-125760/4
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid	20.0	23.8		mg/L		119	60 - 140	5	25
Butyric acid	20.0	16.2		mg/L		81	60 - 140	4	25
Formic acid	20.0	23.8		mg/L		119	60 - 140	2	25
Hexanoic acid	20.0	12.9		mg/L		65	60 - 140	7	25
Pentanoic acid	20.0	19.0		mg/L		95	60 - 140	0	25
Propionic acid	20.0	15.1		mg/L		76	60 - 140	12	25
Pyruvic Acid	20.0	24.8		mg/L		124	60 - 140	4	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-867390/1-A
Matrix: Water
Analysis Batch: 867623

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 867390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		12/05/24 05:56	12/05/24 14:28	1

Lab Sample ID: LCS 680-867390/2-A
Matrix: Water
Analysis Batch: 867623

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 867390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.10		mg/L		102	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-867367/12
Matrix: Water
Analysis Batch: 867367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0214	J	0.10	0.010	mg/L			12/04/24 14:17	1

Lab Sample ID: MB 680-867367/27
Matrix: Water
Analysis Batch: 867367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0235	J	0.10	0.010	mg/L			12/04/24 15:08	1

Lab Sample ID: LCS 680-867367/11
Matrix: Water
Analysis Batch: 867367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.500	0.451		mg/L		90	90 - 110

Lab Sample ID: LCS 680-867367/28
Matrix: Water
Analysis Batch: 867367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.500	0.456		mg/L		91	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-867317/14
Matrix: Water
Analysis Batch: 867317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.010		0.10	0.010	mg/L			12/04/24 11:16	1

Lab Sample ID: LCS 680-867317/15
Matrix: Water
Analysis Batch: 867317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.948		mg/L		95	90 - 110

Lab Sample ID: 680-259310-4 MS
Matrix: Water
Analysis Batch: 867317

Client Sample ID: MW-218-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.1	F1	2.00	3.27	F1	mg/L		60	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-259310-4 MSD
Matrix: Water
Analysis Batch: 867317

Client Sample ID: MW-218-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.1	F1	2.00	3.29	F1	mg/L		61	90 - 110	1	10

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-867866/3
Matrix: Water
Analysis Batch: 867866

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			12/06/24 11:19	1

Lab Sample ID: LCS 680-867866/4
Matrix: Water
Analysis Batch: 867866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			20.0	20.5		mg/L		103	80 - 120		

Lab Sample ID: LCSD 680-867866/5
Matrix: Water
Analysis Batch: 867866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon			20.0	20.6		mg/L		103	80 - 120	0	25

Lab Sample ID: 680-259310-1 DU
Matrix: Water
Analysis Batch: 867866

Client Sample ID: MW-214-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.6			2.43		mg/L				7	25

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-867363/13
Matrix: Water
Analysis Batch: 867363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.0259	J	0.10	0.025	mg/L			12/04/24 12:00	1

Lab Sample ID: LCS 680-867363/12
Matrix: Water
Analysis Batch: 867363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			2.00	1.91		mg/L		95	80 - 120		

Method: SM 3500 FE D - Iron, Ferrous (Continued)

Lab Sample ID: 680-259310-4 MS
Matrix: Water
Analysis Batch: 867363

Client Sample ID: MW-218-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	0.026	J HF B	2.00	2.11		mg/L		104	80 - 120

Lab Sample ID: 680-259310-4 MSD
Matrix: Water
Analysis Batch: 867363

Client Sample ID: MW-218-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	0.026	J HF B	2.00	2.12		mg/L		105	80 - 120	0	20

GC/MS VOA

Analysis Batch: 867635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	8260D	
680-259310-2	MW-216-202412	Total/NA	Water	8260D	
680-259310-3	MW-217-202412	Total/NA	Water	8260D	
680-259310-4	MW-218-202412	Total/NA	Water	8260D	
680-259310-5	MW-219-202412	Total/NA	Water	8260D	
680-259310-6	TB-01-202412	Total/NA	Water	8260D	
MB 680-867635/9	Method Blank	Total/NA	Water	8260D	
LCS 680-867635/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-867635/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 867936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-2 - DL	MW-216-202412	Total/NA	Water	8260D	
680-259310-3	MW-217-202412	Total/NA	Water	8260D	
680-259310-5 - DL	MW-219-202412	Total/NA	Water	8260D	
MB 680-867936/9	Method Blank	Total/NA	Water	8260D	
LCS 680-867936/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-867936/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC VOA

Analysis Batch: 584115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	RSK-175	584175
680-259310-2	MW-216-202412	Total/NA	Water	RSK-175	584175
680-259310-3	MW-217-202412	Total/NA	Water	RSK-175	584175
680-259310-4	MW-218-202412	Total/NA	Water	RSK-175	584175
680-259310-5	MW-219-202412	Total/NA	Water	RSK-175	584175
MB 410-584175/1-A	Method Blank	Total/NA	Water	RSK-175	584175
LCS 410-584175/2-A	Lab Control Sample	Total/NA	Water	RSK-175	584175
LCSD 410-584175/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	584175

Prep Batch: 584175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	RSK-175	
680-259310-2	MW-216-202412	Total/NA	Water	RSK-175	
680-259310-3	MW-217-202412	Total/NA	Water	RSK-175	
680-259310-4	MW-218-202412	Total/NA	Water	RSK-175	
680-259310-5	MW-219-202412	Total/NA	Water	RSK-175	
MB 410-584175/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-584175/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-584175/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 585233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1 - DL	MW-214-202412	Total/NA	Water	RSK-175	585408
MB 410-585408/1-A	Method Blank	Total/NA	Water	RSK-175	585408
LCS 410-585408/2-A	Lab Control Sample	Total/NA	Water	RSK-175	585408
LCSD 410-585408/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	585408

GC VOA

Prep Batch: 585408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1 - DL	MW-214-202412	Total/NA	Water	RSK-175	
MB 410-585408/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-585408/2-A	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 410-585408/3-A	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 125760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	VFA-HPLC	
680-259310-2	MW-216-202412	Total/NA	Water	VFA-HPLC	
MB 670-125760/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-125760/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-125760/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 868974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	300.0-1993 R2.1	
680-259310-2	MW-216-202412	Total/NA	Water	300.0-1993 R2.1	
680-259310-3	MW-217-202412	Total/NA	Water	300.0-1993 R2.1	
680-259310-4	MW-218-202412	Total/NA	Water	300.0-1993 R2.1	
680-259310-5	MW-219-202412	Total/NA	Water	300.0-1993 R2.1	
MB 680-868974/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-868974/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-868974/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 867390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total Recoverable	Water	3005A	
680-259310-2	MW-216-202412	Total Recoverable	Water	3005A	
680-259310-3	MW-217-202412	Total Recoverable	Water	3005A	
680-259310-4	MW-218-202412	Total Recoverable	Water	3005A	
680-259310-5	MW-219-202412	Total Recoverable	Water	3005A	
MB 680-867390/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-867390/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 867623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total Recoverable	Water	6010D	867390
680-259310-2	MW-216-202412	Total Recoverable	Water	6010D	867390
680-259310-3	MW-217-202412	Total Recoverable	Water	6010D	867390
680-259310-4	MW-218-202412	Total Recoverable	Water	6010D	867390
680-259310-5	MW-219-202412	Total Recoverable	Water	6010D	867390
MB 680-867390/1-A	Method Blank	Total Recoverable	Water	6010D	867390
LCS 680-867390/2-A	Lab Control Sample	Total Recoverable	Water	6010D	867390

General Chemistry

Analysis Batch: 867317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	353.2	
680-259310-2	MW-216-202412	Total/NA	Water	353.2	
680-259310-3	MW-217-202412	Total/NA	Water	353.2	
680-259310-4	MW-218-202412	Total/NA	Water	353.2	
680-259310-5	MW-219-202412	Total/NA	Water	353.2	
MB 680-867317/14	Method Blank	Total/NA	Water	353.2	
LCS 680-867317/15	Lab Control Sample	Total/NA	Water	353.2	
680-259310-4 MS	MW-218-202412	Total/NA	Water	353.2	
680-259310-4 MSD	MW-218-202412	Total/NA	Water	353.2	

Analysis Batch: 867363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	SM 3500 FE D	
680-259310-2	MW-216-202412	Total/NA	Water	SM 3500 FE D	
680-259310-3	MW-217-202412	Total/NA	Water	SM 3500 FE D	
680-259310-4	MW-218-202412	Total/NA	Water	SM 3500 FE D	
680-259310-5	MW-219-202412	Total/NA	Water	SM 3500 FE D	
MB 680-867363/13	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-867363/12	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
680-259310-4 MS	MW-218-202412	Total/NA	Water	SM 3500 FE D	
680-259310-4 MSD	MW-218-202412	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 867367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	353.2	
680-259310-2	MW-216-202412	Total/NA	Water	353.2	
680-259310-3	MW-217-202412	Total/NA	Water	353.2	
680-259310-4	MW-218-202412	Total/NA	Water	353.2	
680-259310-5	MW-219-202412	Total/NA	Water	353.2	
MB 680-867367/12	Method Blank	Total/NA	Water	353.2	
MB 680-867367/27	Method Blank	Total/NA	Water	353.2	
LCS 680-867367/11	Lab Control Sample	Total/NA	Water	353.2	
LCS 680-867367/28	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 867849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	Nitrate by calc	
680-259310-2	MW-216-202412	Total/NA	Water	Nitrate by calc	
680-259310-3	MW-217-202412	Total/NA	Water	Nitrate by calc	
680-259310-4	MW-218-202412	Total/NA	Water	Nitrate by calc	
680-259310-5	MW-219-202412	Total/NA	Water	Nitrate by calc	

Analysis Batch: 867866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259310-1	MW-214-202412	Total/NA	Water	5310 B-2011	
680-259310-2	MW-216-202412	Total/NA	Water	5310 B-2011	
MB 680-867866/3	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-867866/4	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-867866/5	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	
680-259310-1 DU	MW-214-202412	Total/NA	Water	5310 B-2011	

Client Sample ID: MW-214-202412

Lab Sample ID: 680-259310-1

Date Collected: 12/03/24 10:00

Matrix: Water

Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	867635	12/06/24 13:38	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	RSK-175			5 mL	5 mL	584175	12/10/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	584115	12/11/24 13:08	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	585408	12/12/24 14:20	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	20	5 mL	5 mL	585233	12/12/24 23:20	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868974	12/14/24 19:33	AF	EET SAV
	Instrument ID: CICP									
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867390	12/05/24 05:56	RR	EET SAV
Total Recoverable	Analysis	6010D		1			867623	12/05/24 15:26	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867317	12/04/24 11:38	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867367	12/04/24 14:26	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867866	12/06/24 12:28	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		10	2 mL	2 mL	867363	12/04/24 13:42	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-216-202412

Lab Sample ID: 680-259310-2

Date Collected: 12/03/24 12:20

Matrix: Water

Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	867635	12/06/24 13:59	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D	DL	5	5 mL	5 mL	867936	12/09/24 19:11	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	RSK-175			5 mL	5 mL	584175	12/10/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	584115	12/11/24 13:27	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868974	12/14/24 19:43	AF	EET SAV
	Instrument ID: CICP									
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867390	12/05/24 05:56	RR	EET SAV
Total Recoverable	Analysis	6010D		1			867623	12/05/24 15:00	BJB	EET SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259310-1

Client Sample ID: MW-216-202412

Lab Sample ID: 680-259310-2

Date Collected: 12/03/24 12:20
Matrix: Water
Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	2 mL	2 mL	867317	12/04/24 11:37	KD	EET SAV
Total/NA	Analysis	353.2		1	2 mL	2 mL	867367	12/04/24 14:28	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867866	12/06/24 13:01	NVF	EET SAV
	Instrument ID: TOC8									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867363	12/04/24 12:00	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-217-202412

Lab Sample ID: 680-259310-3

Date Collected: 12/03/24 14:55
Matrix: Water
Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	867635	12/06/24 14:20	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D		1	5 mL	5 mL	867936	12/09/24 14:37	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	RSK-175			5 mL	5 mL	584175	12/10/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	584115	12/11/24 13:45	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868974	12/14/24 19:53	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867390	12/05/24 05:56	RR	EET SAV
Total Recoverable	Analysis	6010D		1			867623	12/05/24 15:31	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867317	12/04/24 11:51	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867367	12/04/24 14:27	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867363	12/04/24 12:00	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-218-202412

Lab Sample ID: 680-259310-4

Date Collected: 12/03/24 15:05
Matrix: Water
Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		10	5 mL	5 mL	867635	12/06/24 16:10	Y1S	EET SAV
	Instrument ID: CMSB									

Client Sample ID: MW-218-202412

Lab Sample ID: 680-259310-4

Date Collected: 12/03/24 15:05

Matrix: Water

Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RSK-175			5 mL	5 mL	584175	12/10/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	584115	12/11/24 14:04	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868974	12/14/24 20:03	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867390	12/05/24 05:56	RR	EET SAV
Total Recoverable	Analysis	6010D		1			867623	12/05/24 15:49	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		2	2 mL	2 mL	867317	12/04/24 11:46	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867367	12/04/24 14:24	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867363	12/04/24 12:00	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-219-202412

Lab Sample ID: 680-259310-5

Date Collected: 12/03/24 16:50

Matrix: Water

Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	867635	12/06/24 16:34	Y1S	EET SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260D	DL	10	5 mL	5 mL	867936	12/09/24 19:35	Y1S	EET SAV
	Instrument ID: CMSU									
Total/NA	Prep	RSK-175			5 mL	5 mL	584175	12/10/24 11:01	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	584115	12/11/24 14:23	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868974	12/14/24 20:12	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867390	12/05/24 05:56	RR	EET SAV
Total Recoverable	Analysis	6010D		1			867623	12/05/24 15:29	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		2	2 mL	2 mL	867317	12/04/24 11:40	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867367	12/04/24 14:25	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867363	12/04/24 12:00	KD	EET SAV
	Instrument ID: KONELAB4									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259310-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TB-01-202412
Lab Sample ID: 680-259310-6
Date Collected: 12/03/24 08:00
Matrix: Water
Date Received: 12/04/24 08:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	867635	12/06/24 12:45	Y1S	EET SAV
	Instrument ID: CMSB									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259310-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259310-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

244-ATLANTA

Client Information	Sampler: M.Barley / P.Jenlink	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone: 8122302698	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 10851 Mastin Boulevard, Suite 100	Due Date Requested:			
City: Overland Park	TAT Requested (days): STD TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #: 1940108800			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 1940108800			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29) - Water	6010D - Total Iron	3500_F+2_D_Calc, - Ferrous Iron	353.2_Nitrite - Nitrite as N (48 Hour HT)	353.2_Pres - Nitrate-Nitrite-N	Nitrate_Calc - Nitrate as N (Calculated)	300_ORGFM_28D - Sulfate	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	SM5310_TOC_B - TOC	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	S	N	N	A	S	A		
MW-214-202412	12/3/24	1000	G	W	N	N	X	X	X	X	X		X	X	X	X		
MW-216-202412		1220	G	W	N	N	X	X	X	X	X		X	X	X	X		
~~MW-217-202412 MB~~		~~1220~~ 1213																
MW-217-202412		1455	G	W	N	N	X	X	X	X	X		X	X				
MW-218-202412		1505	G	W	N	N	X	X	X	X	X		X	X				
MW-219-202412		1650	G	W	N	N	X	X	X	X	X		X	X				
TB-01-202412		0800	-	-	N	N	X											
			MB															

680-259310 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/3/24 1730	Ramboll			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 12/4/24 0812	Company Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.3/3.3

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-789507.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-259310-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 12/18/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-214-202412 (680-259310-1)	12/3/24	10:00 Central	G	Water			X	2	
MW-216-202412 (680-259310-2)	12/3/24	12:20 Central	G	Water			X	2	
MW-217-202412 (680-259310-3)	12/3/24	14:55 Central	G	Water			X	2	
MW-218-202412 (680-259310-4)	12/3/24	15:05 Central	G	Water			X	2	
MW-219-202412 (680-259310-5)	12/3/24	16:50 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		12/4/24 1604				
2						
3					12/5/24 1005	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1/2.0

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-789509.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-259310-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 12/16/2024			
City: Altamonte Springs	TAT Requested (days): N/A			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VFA_HPLC_PREC/ VFAS (8)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-214-202412 (680-259310-1)	12/3/24	10:00 Central	G	Water			X	1	
MW-216-202412 (680-259310-2)	12/3/24	12:20 Central	G	Water			X	2	

Preservation Codes: -

Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/4/24 1604		BB	12/5 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5/1.3

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259310-1

Login Number: 259310

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259310-1

Login Number: 259310
List Number: 2
Creator: Wrye, Shaun

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 12/05/24 11:42 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259310-1

Login Number: 259310
List Number: 3
Creator: Beck, Brent

List Source: Eurofins Orlando
List Creation: 12/05/24 01:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
10851 Mastin Boulevard
Suite 100
Overland Park, Kansas 66210

Generated 12/16/2024 4:41:41 PM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-259389-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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 Southeast, LLC Project Manager.

Authorization

Generated
12/16/2024 4:41:41 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-259389-1	MW-172-202412	Water	12/04/24 09:45	12/05/24 10:30
680-259389-2	ITMW-16-202412	Water	12/04/24 09:45	12/05/24 10:30
680-259389-3	MW-92-202412	Water	12/04/24 11:45	12/05/24 10:30
680-259389-4	TMW-34-202412	Water	12/04/24 11:30	12/05/24 10:30
680-259389-5	MW-215-202412	Water	12/04/24 14:30	12/05/24 10:30
680-259389-6	ITMW-19-202412	Water	12/04/24 16:35	12/05/24 10:30
680-259389-7	MW-198-202412	Water	12/04/24 14:45	12/05/24 10:30

Job ID: 680-259389-1 — Eurofins Savannah

Job Narrative
680-259389-1

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.

Receipt
The samples were received on 12/5/2024 10:30 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 4.5°C.

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

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

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

General Chemistry
Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-867770 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2_Nitrite: The method blank for analytical batch 680-867770 contained Nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

Method 353.2_Pres: The method blank for analytical batch 680-867827 contained Nitrate-Nitrite as N above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than 1/2 the reporting limit (RL).

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Client Sample ID: MW-172-202412 — Lab Sample ID: 680-259389-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	1.4		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: ITMW-16-202412 — Lab Sample ID: 680-259389-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	13		5.0	3.0	ug/L	1		RSK-175	Total/NA
Sulfate	5.8		1.0	0.40	mg/L	1		300.0-1993 R2.1	Total/NA
Iron	1.4		0.10	0.020	mg/L	1		6010D	Total Recoverable
Nitrate Nitrite as N	0.075	J B	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrite as N	0.016	J B F1 F2	0.10	0.010	mg/L	1		353.2	Total/NA
Nitrate as N	0.059	J	0.10	0.010	mg/L	1		Nitrate by calc	Total/NA

Client Sample ID: MW-92-202412 — Lab Sample ID: 680-259389-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetic acid	610		0.50	0.18	mg/L	1		VFA-HPLC	Total/NA
Butyric acid	7.6		0.50	0.089	mg/L	1		VFA-HPLC	Total/NA
Formic acid	260		0.50	0.15	mg/L	1		VFA-HPLC	Total/NA
Total Organic Carbon	500		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: TMW-34-202412 — Lab Sample ID: 680-259389-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane - DL	7600		100	60	ug/L	20		RSK-175	Total/NA

Client Sample ID: MW-215-202412 — Lab Sample ID: 680-259389-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.3		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: ITMW-19-202412 — Lab Sample ID: 680-259389-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetic acid	2200		10	3.6	mg/L	20		VFA-HPLC	Total/NA
Formic acid	1500		10	3.0	mg/L	20		VFA-HPLC	Total/NA
Propionic acid	660		10	1.3	mg/L	20		VFA-HPLC	Total/NA
Total Organic Carbon	1700		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

Client Sample ID: MW-198-202412 — Lab Sample ID: 680-259389-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetic acid	49		0.50	0.18	mg/L	1		VFA-HPLC	Total/NA
Formic acid	20		0.50	0.15	mg/L	1		VFA-HPLC	Total/NA
Total Organic Carbon	63		1.0	0.50	mg/L	1		5310 B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-172-202412

Lab Sample ID: 680-259389-1

Date Collected: 12/04/24 09:45

Matrix: Water

Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	1.4		1.0	0.50	mg/L			12/06/24 23:16	1

Client Sample ID: ITMW-16-202412

Lab Sample ID: 680-259389-2

Date Collected: 12/04/24 09:45

Matrix: Water

Date Received: 12/05/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:19	1
Ethane	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:19	1
Ethylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:19	1
Methane	13		5.0	3.0	ug/L		12/12/24 10:54	12/12/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*60*		*43 - 133*	*12/12/24 10:54*	*12/12/24 17:19*	*1*

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5.8		1.0	0.40	mg/L			12/14/24 15:32	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.4		0.10	0.020	mg/L		12/05/24 17:03	12/10/24 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (EPA 353.2)	0.075	J B	0.10	0.010	mg/L			12/07/24 11:22	1
Nitrite as N (EPA 353.2)	0.016	J B F1 F2	0.10	0.010	mg/L			12/05/24 16:59	1
Nitrate as N (SM Nitrate by calc)	0.059	J	0.10	0.010	mg/L			12/08/24 10:51	1
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			12/07/24 12:28	1

Client Sample ID: MW-92-202412

Lab Sample ID: 680-259389-3

Date Collected: 12/04/24 11:45

Matrix: Water

Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	610		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	7.6		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	260		0.50	0.15	mg/L			12/06/24 15:00	1

Client Sample ID: MW-92-202412
Lab Sample ID: 680-259389-3

Date Collected: 12/04/24 11:45
Matrix: Water
Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	500		1.0	0.50	mg/L			12/06/24 23:35	1

Client Sample ID: TMW-34-202412
Lab Sample ID: 680-259389-4

Date Collected: 12/04/24 11:30
Matrix: Water
Date Received: 12/05/24 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:37	1
Ethane	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:37	1
Ethylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*57*		*43 - 133*	*12/12/24 10:54*	*12/12/24 17:37*	*1*

Method: RSK-175 - Dissolved Gases (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	7600		100	60	ug/L		12/13/24 14:39	12/13/24 23:29	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*94*		*43 - 133*	*12/13/24 14:39*	*12/13/24 23:29*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 FE D)	<0.025	HF	0.10	0.025	mg/L			12/07/24 12:28	1

Client Sample ID: MW-215-202412
Lab Sample ID: 680-259389-5

Date Collected: 12/04/24 14:30
Matrix: Water
Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Client Sample ID: MW-215-202412

Lab Sample ID: 680-259389-5

Date Collected: 12/04/24 14:30
Matrix: Water
Date Received: 12/05/24 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	2.3		1.0	0.50	mg/L			12/06/24 23:55	1

Client Sample ID: ITMW-19-202412

Lab Sample ID: 680-259389-6

Date Collected: 12/04/24 16:35
Matrix: Water
Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	2200		10	3.6	mg/L			12/09/24 15:00	20
Butyric acid	<1.8		10	1.8	mg/L			12/09/24 15:00	20
Formic acid	1500		10	3.0	mg/L			12/09/24 15:00	20
Hexanoic acid	<5.2		10	5.2	mg/L			12/09/24 15:00	20
Lactic acid	<2.6		10	2.6	mg/L			12/09/24 15:00	20
Pentanoic acid	<2.8		10	2.8	mg/L			12/09/24 15:00	20
Propionic acid	660		10	1.3	mg/L			12/09/24 15:00	20
Pyruvic Acid	<0.42		10	0.42	mg/L			12/09/24 15:00	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	1700		1.0	0.50	mg/L			12/07/24 00:16	1

Client Sample ID: MW-198-202412

Lab Sample ID: 680-259389-7

Date Collected: 12/04/24 14:45
Matrix: Water
Date Received: 12/05/24 10:30

Method: Lab SOP VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	49		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	20		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SM 5310 B-2011)	63		1.0	0.50	mg/L			12/07/24 00:36	1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 410-585330/1-A
Matrix: Water
Analysis Batch: 585236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 10:56	1
Ethane	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 10:56	1
Ethylene	<1.0		5.0	1.0	ug/L		12/12/24 10:54	12/12/24 10:56	1
Methane	<3.0		5.0	3.0	ug/L		12/12/24 10:54	12/12/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*111*		*43 - 133*	*12/12/24 10:54*	*12/12/24 10:56*	*1*

Lab Sample ID: LCS 410-585330/2-A
Matrix: Water
Analysis Batch: 585236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	49.8		ug/L		96	61 - 148
Ethane	61.7	66.5		ug/L		108	85 - 115
Ethylene	58.3	64.3		ug/L		110	83 - 115
Methane	59.8	65.5		ug/L		110	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*109*		*43 - 133*

Lab Sample ID: MB 410-585895/1-A
Matrix: Water
Analysis Batch: 585740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 585895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetylene	<1.0		5.0	1.0	ug/L		12/13/24 14:39	12/13/24 20:11	1
Ethane	<1.0		5.0	1.0	ug/L		12/13/24 14:39	12/13/24 20:11	1
Ethylene	<1.0		5.0	1.0	ug/L		12/13/24 14:39	12/13/24 20:11	1
Methane	<3.0		5.0	3.0	ug/L		12/13/24 14:39	12/13/24 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Propene	*101*		*43 - 133*	*12/13/24 14:39*	*12/13/24 20:11*	*1*

Lab Sample ID: LCS 410-585895/2-A
Matrix: Water
Analysis Batch: 585740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 585895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetylene	52.1	53.8		ug/L		103	61 - 148
Ethane	61.7	63.8		ug/L		103	85 - 115
Ethylene	58.3	61.1		ug/L		105	83 - 115
Methane	59.8	63.2		ug/L		106	85 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Propene	*102*		*43 - 133*

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-868973/2
Matrix: Water
Analysis Batch: 868973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.40		1.0	0.40	mg/L			12/14/24 12:27	1

Lab Sample ID: LCS 680-868973/3
Matrix: Water
Analysis Batch: 868973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.99		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-868973/4
Matrix: Water
Analysis Batch: 868973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	10.1		mg/L		101	90 - 110	1	15

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 670-125760/1
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/06/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/06/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/06/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/06/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/06/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/06/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/06/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/06/24 15:00	1

Lab Sample ID: LCS 670-125760/3
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	20.0	25.0		mg/L		125	60 - 140
Butyric acid	20.0	16.8		mg/L		84	60 - 140
Formic acid	20.0	23.4		mg/L		117	60 - 140
Hexanoic acid	20.0	13.9		mg/L		70	60 - 140
Pentanoic acid	20.0	19.0		mg/L		95	60 - 140
Propionic acid	20.0	17.0		mg/L		85	60 - 140
Pyruvic Acid	20.0	23.8		mg/L		119	60 - 140

Method: VFA-HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Lab Sample ID: LCSD 670-125760/4
Matrix: Water
Analysis Batch: 125760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid			20.0	23.8		mg/L		119	60 - 140	5	25
Butyric acid			20.0	16.2		mg/L		81	60 - 140	4	25
Formic acid			20.0	23.8		mg/L		119	60 - 140	2	25
Hexanoic acid			20.0	12.9		mg/L		65	60 - 140	7	25
Pentanoic acid			20.0	19.0		mg/L		95	60 - 140	0	25
Propionic acid			20.0	15.1		mg/L		76	60 - 140	12	25
Pyruvic Acid			20.0	24.8		mg/L		124	60 - 140	4	25

Lab Sample ID: MB 670-126225/1
Matrix: Water
Analysis Batch: 126225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<0.18		0.50	0.18	mg/L			12/09/24 15:00	1
Butyric acid	<0.089		0.50	0.089	mg/L			12/09/24 15:00	1
Formic acid	<0.15		0.50	0.15	mg/L			12/09/24 15:00	1
Hexanoic acid	<0.26		0.50	0.26	mg/L			12/09/24 15:00	1
Lactic acid	<0.13		0.50	0.13	mg/L			12/09/24 15:00	1
Pentanoic acid	<0.14		0.50	0.14	mg/L			12/09/24 15:00	1
Propionic acid	<0.065		0.50	0.065	mg/L			12/09/24 15:00	1
Pyruvic Acid	<0.021		0.50	0.021	mg/L			12/09/24 15:00	1

Lab Sample ID: LCS 670-126225/3
Matrix: Water
Analysis Batch: 126225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetic acid			20.0	20.9		mg/L		105	60 - 140		
Butyric acid			20.0	23.1		mg/L		116	60 - 140		
Formic acid			20.0	23.4		mg/L		117	60 - 140		
Hexanoic acid			20.0	22.7		mg/L		114	60 - 140		
Pentanoic acid			20.0	21.7		mg/L		109	60 - 140		
Propionic acid			20.0	16.5		mg/L		83	60 - 140		
Pyruvic Acid			20.0	20.1		mg/L		101	60 - 140		

Lab Sample ID: LCSD 670-126225/4
Matrix: Water
Analysis Batch: 126225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetic acid			20.0	19.0		mg/L		95	60 - 140	10	25
Butyric acid			20.0	21.7		mg/L		109	60 - 140	6	25
Formic acid			20.0	23.0		mg/L		115	60 - 140	2	25
Hexanoic acid			20.0	23.6		mg/L		118	60 - 140	4	25
Pentanoic acid			20.0	21.7		mg/L		109	60 - 140	0	25
Propionic acid			20.0	15.4		mg/L		77	60 - 140	7	25
Pyruvic Acid			20.0	20.5		mg/L		103	60 - 140	2	25

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-867603/1-A
Matrix: Water
Analysis Batch: 868273

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 867603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.020		0.10	0.020	mg/L		12/05/24 17:03	12/10/24 12:56	1

Lab Sample ID: LCS 680-867603/2-A
Matrix: Water
Analysis Batch: 868273

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 867603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	5.00	5.35		mg/L		107	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 680-867770/12
Matrix: Water
Analysis Batch: 867770

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0217	J	0.10	0.010	mg/L			12/05/24 16:42	1

Lab Sample ID: LCS 680-867770/11
Matrix: Water
Analysis Batch: 867770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.500	0.452		mg/L		90	90 - 110

Lab Sample ID: 680-259389-2 MS
Matrix: Water
Analysis Batch: 867770

Client Sample ID: ITMW-16-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrite as N	0.016	J B F1 F2	0.500	0.461	F1	mg/L		89	90 - 110

Lab Sample ID: 680-259389-2 MSD
Matrix: Water
Analysis Batch: 867770

Client Sample ID: ITMW-16-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	0.016	J B F1 F2	0.500	0.518	F2	mg/L		100	90 - 110	12	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-867827/14
Matrix: Water
Analysis Batch: 867827

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0110	J	0.10	0.010	mg/L			12/07/24 11:13	1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 680-867827/15
Matrix: Water
Analysis Batch: 867827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.964		mg/L		96	90 - 110

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-867868/1
Matrix: Water
Analysis Batch: 867868

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.50		1.0	0.50	mg/L			12/06/24 20:26	1

Lab Sample ID: LCS 680-867868/2
Matrix: Water
Analysis Batch: 867868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	20.9		mg/L		105	80 - 120

Lab Sample ID: LCSD 680-867868/3
Matrix: Water
Analysis Batch: 867868

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	20.7		mg/L		104	80 - 120	1	25

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-867825/13
Matrix: Water
Analysis Batch: 867825

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.025		0.10	0.025	mg/L			12/07/24 12:28	1

Lab Sample ID: LCS 680-867825/12
Matrix: Water
Analysis Batch: 867825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	2.00	1.99		mg/L		99	80 - 120

Lab Sample ID: 680-259389-2 MS
Matrix: Water
Analysis Batch: 867825

Client Sample ID: ITMW-16-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	<0.025	HF	2.00	2.15		mg/L		108	80 - 120

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Method: SM 3500 FE D - Iron, Ferrous (Continued)

Lab Sample ID: 680-259389-2 MSD
Matrix: Water
Analysis Batch: 867825

Client Sample ID: ITMW-16-202412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	<0.025	HF	2.00	2.16		mg/L		108	80 - 120	0	20

GC VOA

Analysis Batch: 585236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	RSK-175	585330
680-259389-4	TMW-34-202412	Total/NA	Water	RSK-175	585330
MB 410-585330/1-A	Method Blank	Total/NA	Water	RSK-175	585330
LCS 410-585330/2-A	Lab Control Sample	Total/NA	Water	RSK-175	585330

Prep Batch: 585330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	RSK-175	
680-259389-4	TMW-34-202412	Total/NA	Water	RSK-175	
MB 410-585330/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-585330/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 585740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-4 - DL	TMW-34-202412	Total/NA	Water	RSK-175	585895
MB 410-585895/1-A	Method Blank	Total/NA	Water	RSK-175	585895
LCS 410-585895/2-A	Lab Control Sample	Total/NA	Water	RSK-175	585895

Prep Batch: 585895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-4 - DL	TMW-34-202412	Total/NA	Water	RSK-175	
MB 410-585895/1-A	Method Blank	Total/NA	Water	RSK-175	
LCS 410-585895/2-A	Lab Control Sample	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 125760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-1	MW-172-202412	Total/NA	Water	VFA-HPLC	
680-259389-3	MW-92-202412	Total/NA	Water	VFA-HPLC	
680-259389-5	MW-215-202412	Total/NA	Water	VFA-HPLC	
680-259389-7	MW-198-202412	Total/NA	Water	VFA-HPLC	
MB 670-125760/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-125760/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-125760/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 126225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-6	ITMW-19-202412	Total/NA	Water	VFA-HPLC	
MB 670-126225/1	Method Blank	Total/NA	Water	VFA-HPLC	
LCS 670-126225/3	Lab Control Sample	Total/NA	Water	VFA-HPLC	
LCSD 670-126225/4	Lab Control Sample Dup	Total/NA	Water	VFA-HPLC	

Analysis Batch: 868973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	300.0-1993 R2.1	
MB 680-868973/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-868973/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-868973/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 867603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total Recoverable	Water	3005A	
MB 680-867603/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-867603/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 868273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total Recoverable	Water	6010D	867603
MB 680-867603/1-A	Method Blank	Total Recoverable	Water	6010D	867603
LCS 680-867603/2-A	Lab Control Sample	Total Recoverable	Water	6010D	867603

General Chemistry

Analysis Batch: 867770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	353.2	
MB 680-867770/12	Method Blank	Total/NA	Water	353.2	
LCS 680-867770/11	Lab Control Sample	Total/NA	Water	353.2	
680-259389-2 MS	ITMW-16-202412	Total/NA	Water	353.2	
680-259389-2 MSD	ITMW-16-202412	Total/NA	Water	353.2	

Analysis Batch: 867825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	SM 3500 FE D	
680-259389-4	TMW-34-202412	Total/NA	Water	SM 3500 FE D	
MB 680-867825/13	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 680-867825/12	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
680-259389-2 MS	ITMW-16-202412	Total/NA	Water	SM 3500 FE D	
680-259389-2 MSD	ITMW-16-202412	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 867827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	353.2	
MB 680-867827/14	Method Blank	Total/NA	Water	353.2	
LCS 680-867827/15	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 867849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-2	ITMW-16-202412	Total/NA	Water	Nitrate by calc	

Analysis Batch: 867868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259389-1	MW-172-202412	Total/NA	Water	5310 B-2011	
680-259389-3	MW-92-202412	Total/NA	Water	5310 B-2011	
680-259389-5	MW-215-202412	Total/NA	Water	5310 B-2011	
680-259389-6	ITMW-19-202412	Total/NA	Water	5310 B-2011	
680-259389-7	MW-198-202412	Total/NA	Water	5310 B-2011	
MB 680-867868/1	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-867868/2	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-867868/3	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259389-1

Client Sample ID: MW-172-202412

Lab Sample ID: 680-259389-1

Date Collected: 12/04/24 09:45
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867868	12/06/24 23:16	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: ITMW-16-202412

Lab Sample ID: 680-259389-2

Date Collected: 12/04/24 09:45
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RSK-175			5 mL	5 mL	585330	12/12/24 10:54	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	585236	12/12/24 17:19	LXF2	ELLE
	Instrument ID: 3145B									
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	868973	12/14/24 15:32	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	25 mL	867603	12/05/24 17:03	BCB	EET SAV
Total Recoverable	Analysis	6010D		1			868273	12/10/24 14:08	BJB	EET SAV
	Instrument ID: ICPH									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867770	12/05/24 16:59	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	867827	12/07/24 11:22	KD	EET SAV
	Instrument ID: SEAL 1									
Total/NA	Analysis	Nitrate by calc		1			867849	12/08/24 10:51	NVF	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867825	12/07/24 12:28	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-92-202412

Lab Sample ID: 680-259389-3

Date Collected: 12/04/24 11:45
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867868	12/06/24 23:35	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: TMW-34-202412

Lab Sample ID: 680-259389-4

Date Collected: 12/04/24 11:30
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RSK-175			5 mL	5 mL	585330	12/12/24 10:54	HQR6	ELLE
Total/NA	Analysis	RSK-175		1	5 mL	5 mL	585236	12/12/24 17:37	LXF2	ELLE
	Instrument ID: 3145B									

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259389-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: TMW-34-202412
Lab Sample ID: 680-259389-4
Date Collected: 12/04/24 11:30
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	RSK-175	DL		5 mL	5 mL	585895	12/13/24 14:39	HQR6	ELLE
Total/NA	Analysis	RSK-175	DL	20	5 mL	5 mL	585740	12/13/24 23:29	LXF2	ELLE
	Instrument ID: 32296									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	867825	12/07/24 12:28	KD	EET SAV
	Instrument ID: KONELAB4									

Client Sample ID: MW-215-202412
Lab Sample ID: 680-259389-5
Date Collected: 12/04/24 14:30
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867868	12/06/24 23:55	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: ITMW-19-202412
Lab Sample ID: 680-259389-6
Date Collected: 12/04/24 16:35
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		20			126225	12/09/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867868	12/07/24 00:16	NVF	EET SAV
	Instrument ID: TOC8									

Client Sample ID: MW-198-202412
Lab Sample ID: 680-259389-7
Date Collected: 12/04/24 14:45
Matrix: Water
Date Received: 12/05/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	VFA-HPLC		1			125760	12/06/24 15:00	IAD	EET ORL
	Instrument ID: NOEQUIP									
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	867868	12/07/24 00:36	NVF	EET SAV
	Instrument ID: TOC8									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259389-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-25

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Arkansas (DW)	State	FL00091	06-30-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259389-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	ELLE
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
VFA-HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET ORL
6010D	Metals (ICP)	SW846	EET SAV
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET SAV
353.2	Nitrogen, Nitrite	EPA	EET SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	EET SAV
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET SAV
SM 3500 FE D	Iron, Ferrous	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
RSK-175	Dissolved Gases Prep	RSK	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

244- ATLANTA

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: M. Barley / P. Jenlink	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone: 8122302688	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:	Analysis Requested		Job #:
Address: 10851 Mastin Boulevard, Suite 100	Due Date Requested:			Preservation Codes: A - HCL
City: Overland Park	TAT Requested (days): Std TAT			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #: 1940108800			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 1940108800			Other:
Site: Whirlpool Ft. Smith AR	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (28) - Water	6010D - Total Iron	3500_Fe2_D_Calc, - Ferrous Iron	353.2_Nitrite - Nitrite as N (48 Hour HT)	353.2_Pres - Nitrate-Nitrite-N	Nitrate_Calc - Nitrate as N (Calculated)	300_ORGFM_28D - Sulfate	RSK_175 - Diss Gases - MEE & Acetylene - (ELLE)	SM5310_TOC_B - TOC	VFA_HPLC_PREC - VFAs (8) - EET-ORL	Total Number of containers
			Preservation Code:				A	D	N	N	S	N	N	A	S	A	
MW-172-202412	12/4/24	0945	G	W	N	N									X	X	
ITMW-16-202412	12/4/24	0945	G	W	N	N		X	X	X	X		X	X			
MW-92-202412	12/4/24	1145	G	W	N	N									X	X	
TMW-34-202412	12/4/24	1130	G	W	N	N			X					X			
MW-215-202412	12/4/24	1430	G	W	N	N									X	X	
ITMW-19-202412	12/4/24	1635	G	W	N	N									X	X	
MW-198-202412	12/4/24	1445	G	W	N	N									X	X	

Special Instructions/Note:

680-259389 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Matt Murray	12/4/2024 1630	RAMBOLL		12/5/24 1030	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5/4.5

12/16/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-789593.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-259389-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 12/19/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/RSK_HS_Prep Diss Gases-MEE/Acetylene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ITMW-16-202412 (680-259389-2)	12/4/24	09:45 Central	G	Water			X	2	
TMW-34-202412 (680-259389-4)	12/4/24	11:30 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/5/24 1447				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/6/24 1000	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: raw: 1.7 corr: 1.6

Ver: 10/10/2024

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-789594.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Arkansas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - Arkansas (DW); State - Arkansas DEQ		Job #: 680-259389-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 12/17/2024			
City: Altamonte Springs	TAT Requested (days): N/A			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 68031817			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VFA_HPLC_PREC/ VFAS (8)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-172-202412 (680-259389-1)	12/4/24	09:45 Central	G	Water			X	2	
MW-92-202412 (680-259389-3)	12/4/24	11:45 Central	G	Water			X	2	
MW-215-202412 (680-259389-5)	12/4/24	14:30 Central	G	Water			X	2	
ITMW-19-202412 (680-259389-6)	12/4/24	16:35 Central	G	Water			X	2	
MW-198-202412 (680-259389-7)	12/4/24	14:45 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***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) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	12/5/24 1449			12/6 950	
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: 3.7/3.5

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259389-1

Login Number: 259389

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259389-1

Login Number: 259389

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 3

List Creation: 12/06/24 05:39 PM

Creator: Metzger, Katherine A

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259389-1

Login Number: 259389
List Number: 2
Creator: Beck, Brent

List Source: Eurofins Orlando
List Creation: 12/06/24 10:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: David Meyer
Ramboll Americas Engineering Solutions
10851 Mastin Boulevard
Suite 100
Overland Park, Kansas 66210

Generated 12/20/2024 2:20:26 PM

JOB DESCRIPTION

Whirlpool 2024 Annual Fort Smith, AR

JOB NUMBER

680-259972-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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 Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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

Sample Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259972-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-259972-1	MW-210-202412	Water	12/16/24 15:10	12/17/24 08:45
680-259972-2	Trip Blank	Water	12/16/24 00:00	12/17/24 08:45

Job ID: 680-259972-1 — Eurofins Savannah

Job Narrative
680-259972-1

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.

Receipt
The samples were received on 12/17/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

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

Detection Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259972-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-210-202412
Lab Sample ID: 680-259972-1

No Detections.

Client Sample ID: Trip Blank
Lab Sample ID: 680-259972-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259972-1

Client Sample ID: MW-210-202412

Lab Sample ID: 680-259972-1

Date Collected: 12/16/24 15:10

Matrix: Water

Date Received: 12/17/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			12/20/24 11:44	1
Benzene	<0.27		1.0	0.27	ug/L			12/20/24 11:44	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/20/24 11:44	1
Bromoform	<0.59		1.0	0.59	ug/L			12/20/24 11:44	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/20/24 11:44	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/20/24 11:44	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/20/24 11:44	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/20/24 11:44	1
Chloroform	<0.27		1.0	0.27	ug/L			12/20/24 11:44	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/20/24 11:44	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/20/24 11:44	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/20/24 11:44	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/20/24 11:44	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/20/24 11:44	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/20/24 11:44	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/20/24 11:44	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/20/24 11:44	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/20/24 11:44	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/20/24 11:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/20/24 11:44	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/20/24 11:44	1
Toluene	<0.25		1.0	0.25	ug/L			12/20/24 11:44	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/20/24 11:44	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/20/24 11:44	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/20/24 11:44	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/20/24 11:44	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/20/24 11:44	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/20/24 11:44	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/20/24 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/20/24 11:44*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/20/24 11:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*12/20/24 11:44*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/20/24 11:44*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-259972-2

Date Collected: 12/16/24 00:00

Matrix: Water

Date Received: 12/17/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			12/19/24 14:43	1
Benzene	<0.27		1.0	0.27	ug/L			12/19/24 14:43	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/19/24 14:43	1
Bromoform	<0.59		1.0	0.59	ug/L			12/19/24 14:43	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/19/24 14:43	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/19/24 14:43	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/19/24 14:43	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/19/24 14:43	1

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259972-1

Client Sample ID: Trip Blank
Date Collected: 12/16/24 00:00
Date Received: 12/17/24 08:45

Lab Sample ID: 680-259972-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.27		1.0	0.27	ug/L			12/19/24 14:43	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/19/24 14:43	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/19/24 14:43	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/19/24 14:43	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/19/24 14:43	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/19/24 14:43	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/19/24 14:43	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/19/24 14:43	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/19/24 14:43	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/19/24 14:43	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/19/24 14:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/19/24 14:43	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/19/24 14:43	1
Toluene	<0.25		1.0	0.25	ug/L			12/19/24 14:43	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/19/24 14:43	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/19/24 14:43	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/19/24 14:43	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/19/24 14:43	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/19/24 14:43	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/19/24 14:43	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/19/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/19/24 14:43*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/19/24 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*12/19/24 14:43*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*12/19/24 14:43*	*1*

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

Lab Sample ID: MB 680-869691/8
Matrix: Water
Analysis Batch: 869691

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			12/19/24 11:07	1
Benzene	<0.27		1.0	0.27	ug/L			12/19/24 11:07	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/19/24 11:07	1
Bromoform	<0.59		1.0	0.59	ug/L			12/19/24 11:07	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/19/24 11:07	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/19/24 11:07	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/19/24 11:07	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/19/24 11:07	1
Chloroform	<0.27		1.0	0.27	ug/L			12/19/24 11:07	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/19/24 11:07	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/19/24 11:07	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/19/24 11:07	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/19/24 11:07	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/19/24 11:07	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/19/24 11:07	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/19/24 11:07	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/19/24 11:07	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/19/24 11:07	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/19/24 11:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/19/24 11:07	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/19/24 11:07	1
Toluene	<0.25		1.0	0.25	ug/L			12/19/24 11:07	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/19/24 11:07	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/19/24 11:07	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/19/24 11:07	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/19/24 11:07	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/19/24 11:07	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/19/24 11:07	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/19/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*12/19/24 11:07*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/19/24 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*12/19/24 11:07*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*12/19/24 11:07*	*1*

Lab Sample ID: LCS 680-869691/4
Matrix: Water
Analysis Batch: 869691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			250	216		ug/L		87	67 - 120		
Benzene			50.0	48.2		ug/L		96	70 - 130		
Bromochloromethane			50.0	45.5		ug/L		91	70 - 130		
Bromoform			50.0	56.4		ug/L		113	69 - 129		
Bromomethane			50.0	45.7		ug/L		91	28 - 192		
Carbon tetrachloride			50.0	56.0		ug/L		112	70 - 130		
Chlorobenzene			50.0	49.4		ug/L		99	70 - 130		

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

Lab Sample ID: LCS 680-869691/4
Matrix: Water
Analysis Batch: 869691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloroethane			50.0	30.9		ug/L		62	31 - 213		
Chloroform			50.0	49.1		ug/L		98	70 - 130		
Chloromethane			50.0	35.5		ug/L		71	59 - 127		
cis-1,2-Dichloroethene			50.0	47.4		ug/L		95	70 - 130		
cis-1,3-Dichloropropene			50.0	48.7		ug/L		97	70 - 130		
Dibromochloromethane			50.0	49.6		ug/L		99	70 - 130		
1,1-Dichloroethane			50.0	46.1		ug/L		92	70 - 130		
1,2-Dichloroethane			50.0	48.7		ug/L		97	70 - 130		
1,1-Dichloroethene			50.0	45.1		ug/L		90	70 - 130		
1,3-Dichloropropene, Total			100	96.0		ug/L		96	70 - 130		
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130		
4-Methyl-2-pentanone (MIBK)			250	250		ug/L		100	68 - 120		
1,1,2,2-Tetrachloroethane			50.0	55.1		ug/L		110	70 - 130		
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130		
Toluene			50.0	45.2		ug/L		90	70 - 130		
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	70 - 130		
trans-1,3-Dichloropropene			50.0	47.3		ug/L		95	70 - 130		
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	70 - 130		
1,1,2-Trichloroethane			50.0	51.1		ug/L		102	70 - 130		
Trichloroethene			50.0	54.3		ug/L		109	70 - 130		
Vinyl chloride			50.0	41.3		ug/L		83	66 - 129		
Xylenes, Total			100	97.5		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 680-869691/5
Matrix: Water
Analysis Batch: 869691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	234		ug/L		94	67 - 120	8	30
Benzene			50.0	47.9		ug/L		96	70 - 130	1	30
Bromochloromethane			50.0	46.5		ug/L		93	70 - 130	2	30
Bromoform			50.0	58.3		ug/L		117	69 - 129	3	30
Bromomethane			50.0	46.6		ug/L		93	28 - 192	2	30
Carbon tetrachloride			50.0	55.1		ug/L		110	70 - 130	1	30
Chlorobenzene			50.0	49.5		ug/L		99	70 - 130	0	30
Chloroethane			50.0	33.0		ug/L		66	31 - 213	6	30
Chloroform			50.0	49.7		ug/L		99	70 - 130	1	30
Chloromethane			50.0	35.5		ug/L		71	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	49.9		ug/L		100	70 - 130	2	20
Dibromochloromethane			50.0	51.4		ug/L		103	70 - 130	4	30
1,1-Dichloroethane			50.0	46.6		ug/L		93	70 - 130	1	30

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

Lab Sample ID: LCSD 680-869691/5
Matrix: Water
Analysis Batch: 869691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane			50.0	50.4		ug/L		101	70 - 130	3	50
1,1-Dichloroethene			50.0	44.5		ug/L		89	70 - 130	1	20
1,3-Dichloropropene, Total			100	98.7		ug/L		99	70 - 130	3	30
Ethylbenzene			50.0	49.6		ug/L		99	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			250	263		ug/L		105	68 - 120	5	30
1,1,2,2-Tetrachloroethane			50.0	56.5		ug/L		113	70 - 130	3	30
Tetrachloroethene			50.0	52.1		ug/L		104	70 - 130	0	30
Toluene			50.0	45.2		ug/L		90	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	49.5		ug/L		99	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	48.8		ug/L		98	70 - 130	3	30
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	70 - 130	1	30
1,1,2-Trichloroethane			50.0	53.2		ug/L		106	70 - 130	4	30
Trichloroethene			50.0	54.4		ug/L		109	70 - 130	0	30
Vinyl chloride			50.0	41.2		ug/L		82	66 - 129	0	30
Xylenes, Total			100	97.0		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 680-869916/7
Matrix: Water
Analysis Batch: 869916

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<3.7		10	3.7	ug/L			12/20/24 11:05	1
Benzene	<0.27		1.0	0.27	ug/L			12/20/24 11:05	1
Bromochloromethane	<0.34		1.0	0.34	ug/L			12/20/24 11:05	1
Bromoform	<0.59		1.0	0.59	ug/L			12/20/24 11:05	1
Bromomethane	<3.7		5.0	3.7	ug/L			12/20/24 11:05	1
Carbon tetrachloride	<0.30		1.0	0.30	ug/L			12/20/24 11:05	1
Chlorobenzene	<0.15		1.0	0.15	ug/L			12/20/24 11:05	1
Chloroethane	<4.6		5.0	4.6	ug/L			12/20/24 11:05	1
Chloroform	<0.27		1.0	0.27	ug/L			12/20/24 11:05	1
Chloromethane	<0.54		1.0	0.54	ug/L			12/20/24 11:05	1
cis-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			12/20/24 11:05	1
cis-1,3-Dichloropropene	<0.26		1.0	0.26	ug/L			12/20/24 11:05	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/20/24 11:05	1
1,1-Dichloroethane	<0.33		1.0	0.33	ug/L			12/20/24 11:05	1
1,2-Dichloroethane	<0.25		1.0	0.25	ug/L			12/20/24 11:05	1
1,1-Dichloroethene	<0.33		1.0	0.33	ug/L			12/20/24 11:05	1
1,3-Dichloropropene, Total	<0.48		2.0	0.48	ug/L			12/20/24 11:05	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			12/20/24 11:05	1
4-Methyl-2-pentanone (MIBK)	<2.7		10	2.7	ug/L			12/20/24 11:05	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/20/24 11:05	1
Tetrachloroethene	<0.35		1.0	0.35	ug/L			12/20/24 11:05	1

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

Lab Sample ID: MB 680-869916/7
Matrix: Water
Analysis Batch: 869916

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.25		1.0	0.25	ug/L			12/20/24 11:05	1
trans-1,2-Dichloroethene	<0.34		1.0	0.34	ug/L			12/20/24 11:05	1
trans-1,3-Dichloropropene	<0.23		1.0	0.23	ug/L			12/20/24 11:05	1
1,1,1-Trichloroethane	<0.21		1.0	0.21	ug/L			12/20/24 11:05	1
1,1,2-Trichloroethane	<0.32		1.0	0.32	ug/L			12/20/24 11:05	1
Trichloroethene	<0.20		1.0	0.20	ug/L			12/20/24 11:05	1
Vinyl chloride	<0.40		1.0	0.40	ug/L			12/20/24 11:05	1
Xylenes, Total	<0.23		1.0	0.23	ug/L			12/20/24 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*12/20/24 11:05*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/20/24 11:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*12/20/24 11:05*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/20/24 11:05*	*1*

Lab Sample ID: LCS 680-869916/3
Matrix: Water
Analysis Batch: 869916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	268		ug/L		107	67 - 120
Benzene	50.0	52.2		ug/L		104	70 - 130
Bromochloromethane	50.0	50.9		ug/L		102	70 - 130
Bromoform	50.0	41.9		ug/L		84	69 - 129
Bromomethane	50.0	59.6		ug/L		119	28 - 192
Carbon tetrachloride	50.0	48.4		ug/L		97	70 - 130
Chlorobenzene	50.0	48.6		ug/L		97	70 - 130
Chloroethane	50.0	45.6		ug/L		91	31 - 213
Chloroform	50.0	49.8		ug/L		100	70 - 130
Chloromethane	50.0	60.9		ug/L		122	59 - 127
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Dibromochloromethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	51.9		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	53.5		ug/L		107	70 - 130
1,3-Dichloropropene, Total	100	97.4		ug/L		97	70 - 130
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	250	235		ug/L		94	68 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	70 - 130
Tetrachloroethene	50.0	49.3		ug/L		99	70 - 130
Toluene	50.0	49.2		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130
Vinyl chloride	50.0	58.0		ug/L		116	66 - 129

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

Lab Sample ID: LCS 680-869916/3
Matrix: Water
Analysis Batch: 869916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	98.2		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-869916/4
Matrix: Water
Analysis Batch: 869916

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone			250	269		ug/L		108	67 - 120	0	30
Benzene			50.0	51.8		ug/L		104	70 - 130	1	30
Bromochloromethane			50.0	50.8		ug/L		102	70 - 130	0	30
Bromoform			50.0	42.4		ug/L		85	69 - 129	1	30
Bromomethane			50.0	58.4		ug/L		117	28 - 192	2	30
Carbon tetrachloride			50.0	51.2		ug/L		102	70 - 130	6	30
Chlorobenzene			50.0	49.1		ug/L		98	70 - 130	1	30
Chloroethane			50.0	45.8		ug/L		92	31 - 213	0	30
Chloroform			50.0	48.4		ug/L		97	70 - 130	3	30
Chloromethane			50.0	63.3		ug/L		127	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	49.2		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	48.9		ug/L		98	70 - 130	1	20
Dibromochloromethane			50.0	45.5		ug/L		91	70 - 130	1	30
1,1-Dichloroethane			50.0	51.1		ug/L		102	70 - 130	2	30
1,2-Dichloroethane			50.0	47.1		ug/L		94	70 - 130	4	50
1,1-Dichloroethene			50.0	57.1		ug/L		114	70 - 130	6	20
1,3-Dichloropropene, Total			100	96.6		ug/L		97	70 - 130	1	30
Ethylbenzene			50.0	51.4		ug/L		103	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)			250	237		ug/L		95	68 - 120	1	30
1,1,2,2-Tetrachloroethane			50.0	47.9		ug/L		96	70 - 130	2	30
Tetrachloroethene			50.0	52.5		ug/L		105	70 - 130	6	30
Toluene			50.0	49.5		ug/L		99	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.7		ug/L		95	70 - 130	0	30
1,1,1-Trichloroethane			50.0	52.0		ug/L		104	70 - 130	2	30
1,1,2-Trichloroethane			50.0	50.6		ug/L		101	70 - 130	1	30
Trichloroethene			50.0	50.0		ug/L		100	70 - 130	1	30
Vinyl chloride			50.0	62.7		ug/L		125	66 - 129	8	30
Xylenes, Total			100	102		ug/L		102	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Association Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259972-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

GC/MS VOA

Analysis Batch: 869691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259972-2	Trip Blank	Total/NA	Water	8260D	
MB 680-869691/8	Method Blank	Total/NA	Water	8260D	
LCS 680-869691/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-869691/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 869916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-259972-1	MW-210-202412	Total/NA	Water	8260D	
MB 680-869916/7	Method Blank	Total/NA	Water	8260D	
LCS 680-869916/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-869916/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259972-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Client Sample ID: MW-210-202412
Lab Sample ID: 680-259972-1
Date Collected: 12/16/24 15:10
Matrix: Water
Date Received: 12/17/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	869916	12/20/24 11:44	BL	EET SAV
	Instrument ID: CMSAA									

Client Sample ID: Trip Blank
Lab Sample ID: 680-259972-2
Date Collected: 12/16/24 00:00
Matrix: Water
Date Received: 12/17/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	869691	12/19/24 14:43	MLL	EET SAV
	Instrument ID: CMSU									

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Ramboll Americas Engineering Solutions
Job ID: 680-259972-1
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00692	02-01-25

Method Summary

Client: Ramboll Americas Engineering Solutions
Project/Site: Whirlpool 2024 Annual Fort Smith, AR

Job ID: 680-259972-1

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

Protocol References:

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

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Paul Jenlink	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: David Meyer	Phone: 719-464-8085	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: AR	Page: Page 1 of 1
Company: Ramboll Americas Engineering Solutions	PWSID:			Job #:
Address: 10851 Mastin Boulevard, Suite 100	Due Date Requested: 12/19/2024			
City: Overland Park	TAT Requested (days): 2 (BY Thursday 12/19/24)			
State, Zip: KS, 66210	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 68031817 (DO NOT REMOVE)			
Email: dmeyer@ramboll.com	PO #: 1940108800			
Project Name: Whirlpool 2024 Annual Fort Smith, AR	Project #: 1940108800			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs - Site list (29) - Water	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-210-202412	12/16/24	1510	G	GW	N	N	X	3	
Trip Blank	12/16/24		G	W	N	N	X	2	

680-259972 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date: 12/16/24	Time: 1640	Method of Shipment: Fed Ex		
Relinquished by: Paul Jenlink	Date/Time: 12/16/24@1640	Company: Ramboll	Received by:	Date/Time: 12/17/24 0845	Company
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: 2.0/2.0

Login Sample Receipt Checklist

Client: Ramboll Americas Engineering Solutions

Job Number: 680-259972-1

Login Number: 259972

List Source: Eurofins Savannah

List Number: 1

Creator: Lincoln, Alyssa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

10515 Research Dr.
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

ACCREDITED
CERTIFICATE #7157.01

Client: Will Campbell
Ramboll US Consulting, Inc.
10851 Mastin Boulevard
Suite 100
Overland Park, KS 66210

Phone:

Fax:

Identifier: 012VL **Date Rec:** 12/04/2024 **Report Date:** 12/18/2024

Client Project #: **Client Project Name:** Whirlpool Ft Smith AR

Purchase Order #: 1940108132.24-001

Test Results Provided For: CENSUS

Reviewed By: Sarah Keys

NOTICE: This report is intended only for the addressee shown above and contains project specific information. If you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed in the condition received and with the information provided. The report shall not be reproduced, unless in full, without approval from Microbial Insights, Inc.

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

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **012VL**

Project: Whirlpool Ft Smith AR Date Received: 12/04/2024

Sample Information

Client Sample ID:		**MW-214-20241 2**	**MW-216-20241 2**	**MW-217-20241 2**	**MW-218-20241 2**	**MW-219-20241 2**
Sample Date:		12/03/2024	12/03/2024	12/03/2024	12/03/2024	12/03/2024
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		AR/SK	AR/SK	AR/SK	AR/SK	AR/SK
Dechlorinating Bacteria						
Dehalococcoides	*DHC*	**1.80E+01**	**3.10E+00**	**2.10E+00**	**1.60E-01 (J)**	<2.50E-01
tceA Reductase	TCE	**1.20E+01**	**1.50E+00**	<2.00E-01	<2.50E-01	<2.50E-01
BAV1 Vinyl Chloride Reductase	BVC	<2.00E-01	<2.50E-01	<2.00E-01	<2.50E-01	<2.50E-01
Vinyl Chloride Reductase	VCR	**1.20E+01**	**1.10E+00**	<2.00E-01	<2.50E-01	<2.50E-01
Dehalobacter spp.	*DHBt*	**1.00E+05**	**3.70E+03**	**8.60E+03**	**1.70E+04**	**1.80E+02**

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited

< = Result not detected

Quality Assurance/Quality Control Data

Samples Received: **12/04/2024**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	12/04/2024	12/18/2024	0°C	100%	non-detect	non-detect
BVC	12/04/2024	12/18/2024	0°C	97%	non-detect	non-detect
DHC	12/04/2024	12/18/2024	0°C	98%	non-detect	non-detect
TCE	12/04/2024	12/18/2024	0°C	91%	non-detect	non-detect
VCR	12/04/2024	12/18/2024	0°C	91%	non-detect	non-detect

10515 Research Dr.
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

ACCREDITED
CERTIFICATE #7157.01

Client: David Meyer
Ramboll US Consulting, Inc.
10851 Mastin Boulevard
Suite 100
Overland Park, KS 66210

Phone:

Fax:

Identifier: 021VJ **Date Rec:** 10/09/2024 **Report Date:** 10/29/2024

Client Project #: 1940108132 **Client Project Name:** Whirlpool Ft. Smith, AR 2024 Annual Sampling

Purchase Order #: 1940108132

Test Results Provided For: CENSUS

Reviewed By: Alicia Rivera

NOTICE: This report is intended only for the addressee shown above and contains project specific information. If you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed in the condition received and with the information provided. The report shall not be reproduced, unless in full, without approval from Microbial Insights, Inc.

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

MICROBIAL INSIGHTS, INC.

10515 Research Dr., Knoxville TN 37932
Tel. (865) 573-8188 Fax. (865) 573-8133

CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **021VJ**

Project: Whirlpool Ft. Smith, AR 2024 Annual Sampling Date Received: 10/09/2024

Sample Information

Client Sample ID:	**MW-27-202410**	**MW-50R-202410**	**MW-89-202410**	**MW-92-202410**	**TMW-32-202410**
Sample Date:	10/08/2024	10/09/2024	10/09/2024	10/09/2024	10/10/2024
Units:	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	AP/AR	AP/AR	AP/AR	AP/AR	AP/AR

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**2.10E+00**	**1.60E-01 (J)**	**1.80E-01 (J)**	**9.60E+04**	**1.90E+01**
tceA Reductase	TCE	**3.60E-01**	<2.50E-01	<2.50E-01	**5.40E+04**	**9.00E+00**
BAV1 Vinyl Chloride Reductase	BVC	<2.50E-01	<2.50E-01	<2.50E-01	<2.50E-01	<2.50E-01
Vinyl Chloride Reductase	VCR	**3.00E-01**	<2.50E-01	<2.50E-01	**1.70E+04**	**4.20E+00**
Dehalobacter spp.	*DHBt*	**2.00E+03**	**1.30E+01**	**5.60E+00**	**6.30E+05**	**1.20E+03**

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited

< = Result not detected

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CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **021VJ**

Project: Whirlpool Ft. Smith, AR 2024 Annual Sampling Date Received: 10/09/2024

Sample Information

Client Sample ID:		**MW-198-202410**	**MW-172-202410**	**MW-91-202410**	**TMW-10-202410**	**RW-69-202410**
Sample Date:		10/10/2024	10/10/2024	10/10/2024	10/10/2024	10/10/2024
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		AP/AR	AP/AR	AP/AR	AP/AR	AP/AR
Dechlorinating Bacteria						
Dehalococcoides	*DHC*	**2.40E+06**	**5.70E+00**	**2.80E+01**	**1.10E+01**	**5.80E+00**
tceA Reductase	TCE	**5.50E+05**	**4.70E+00**	**1.20E+01**	**3.60E+01**	**3.30E+00**
BAV1 Vinyl Chloride Reductase	BVC	<5.00E-01	<2.50E-01	<2.50E-01	<2.00E-01	**1.10E-01 (J)**
Vinyl Chloride Reductase	VCR	**2.50E+05**	**1.50E+00**	**5.00E+00**	**1.40E+01**	**1.70E+00**
Dehalobacter spp.	*DHBt*	**8.20E+05**	**1.20E+05**	**7.40E+03**	**2.60E+02**	**9.40E+02**

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CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **021VJ**

Project: Whirlpool Ft. Smith, AR 2024 Annual Sampling Date Received: 10/09/2024

Sample Information

Client Sample ID:	**IW-73-202410**	**MW-25R-202410**	**MW-83-202410**	**MW-87-202410**	**MW-215-202410**
Sample Date:	10/10/2024	10/11/2024	10/11/2024	10/11/2024	10/11/2024
Units:	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:	AP/AR	AP/AR	AP/AR	AP/AR	AP/AR

Dechlorinating Bacteria

Dehalococcoides	*DHC*	**3.50E+00**	<2.50E-01	**1.50E+00**	<4.20E-01	**2.00E+01**
tceA Reductase	TCE	**3.70E-01**	<2.50E-01	**1.40E+00**	<4.20E-01	**2.10E+01**
BAV1 Vinyl Chloride Reductase	BVC	<2.50E-01	<2.50E-01	<2.50E-01	<4.20E-01	<8.30E-01
Vinyl Chloride Reductase	VCR	**2.00E-01 (J)**	<2.50E-01	**4.40E-01**	<4.20E-01	**9.70E+00**
Dehalobacter spp.	*DHBt*	<2.50E-01	<2.50E-01	**7.40E+05**	**1.40E+00**	**9.00E+02**

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CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **021VJ**

Project: Whirlpool Ft. Smith, AR 2024 Annual Sampling Date Received: 10/09/2024

Sample Information

Client Sample ID:		**ITMW-19-202410**	**DUP-10-202410**	**MW-38-202410**	**TMW-11-202410**	**MW-58R-202410**
Sample Date:		10/11/2024	10/11/2024	10/11/2024	10/11/2024	10/11/2024
Units:		cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Analyst/Reviewer:		AP/AR	AP/AR	AP/AR	AP/AR	AP/AR
Dechlorinating Bacteria						
Dehalococcoides	*DHC*	**2.60E+01**	**7.50E+01**	**2.40E+01**	**7.70E+00**	**2.80E-01**
tceA Reductase	TCE	**1.60E+01**	**5.20E+01**	**2.70E-01**	**1.30E-01 (J)**	<2.50E-01
BAV1 Vinyl Chloride Reductase	BVC	<2.50E-01	<5.00E-01	**4.40E+00**	<2.00E-01	<2.50E-01
Vinyl Chloride Reductase	VCR	**6.80E+00**	**2.20E+01**	<2.50E-01	**2.80E-01**	<2.50E-01
Dehalobacter spp.	*DHBt*	**1.10E+06**	**3.10E+06**	**3.60E+02**	<2.00E-01	**2.70E+02**

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< = Result not detected

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CENSUS

Client: **Ramboll US Consulting, Inc.** **MI Project Number:** **021VJ**

Project: Whirlpool Ft. Smith, AR 2024 Annual Sampling Date Received: 10/09/2024

Sample Information

Client Sample ID:	**MW-95-202410**
Sample Date:	10/11/2024
Units:	cells/mL
Analyst/Reviewer:	AP/AR

Dechlorinating Bacteria

Dehalococcoides	*DHC*	<2.50E-01
tceA Reductase	TCE	<2.50E-01
BAV1 Vinyl Chloride Reductase	BVC	<2.50E-01
Vinyl Chloride Reductase	VCR	<2.50E-01
Dehalobacter spp.	*DHBt*	<2.50E-01

Legend:

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< = Result not detected

Quality Assurance/Quality Control Data

Samples Received: 10/09/2024

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHBt	10/09/2024	10/18/2024	0°C	116%	non-detect	non-detect
BVC	10/09/2024	10/18/2024	0°C	105%	non-detect	non-detect
DHC	10/09/2024	10/18/2024	0°C	100%	non-detect	non-detect
TCE	10/09/2024	10/18/2024	0°C	99%	non-detect	non-detect
VCR	10/09/2024	10/18/2024	0°C	102%	non-detect	non-detect

Samples Received: 10/10/2024

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	10/10/2024	10/18/2024	0°C	98%	non-detect	non-detect
BVC	10/10/2024	10/18/2024	0°C	91%	non-detect	non-detect
TCE	10/10/2024	10/18/2024	0°C	82%	non-detect	non-detect
VCR	10/10/2024	10/18/2024	0°C	101%	non-detect	non-detect
DHBt	10/10/2024	10/18/2024	0°C	105%	non-detect	non-detect

Samples Received: 10/11/2024

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	10/11/2024	10/18/2024	0°C	98%	non-detect	non-detect
BVC	10/11/2024	10/18/2024	0°C	91%	non-detect	non-detect
TCE	10/11/2024	10/18/2024	0°C	82%	non-detect	non-detect
VCR	10/11/2024	10/18/2024	0°C	101%	non-detect	non-detect
DHBt	10/11/2024	10/18/2024	0°C	105%	non-detect	non-detect

Quality Assurance/Quality Control Data

Samples Received: **10/12/2024**

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	10/12/2024	10/18/2024	0°C	98%	non-detect	non-detect
BVC	10/12/2024	10/18/2024	0°C	91%	non-detect	non-detect
TCE	10/12/2024	10/18/2024	0°C	82%	non-detect	non-detect
VCR	10/12/2024	10/18/2024	0°C	101%	non-detect	non-detect
DHBt	10/12/2024	10/18/2024	0°C	105%	non-detect	non-detect

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 24, 2024

David Meyer
Ramboll US Consulting, Inc.
82 Corporate Woods
Overland Park, KS 66210

RE: Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Dear David Meyer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Matthew Barley, Ramboll
Kristen Drucquer, Ramboll US Consulting, Inc.
Jackie Zellmer, Ramboll

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CERTIFICATIONS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60455196001	**HP-27**	Water	06/17/24 18:44	06/19/24 09:00
60455196002	**Dup-01**	Water	06/17/24 18:47	06/19/24 09:00
60455196003	**HP-31**	Water	06/18/24 10:48	06/19/24 09:00
60455196004	**HP-29**	Water	06/18/24 12:05	06/19/24 09:00
60455196005	**HP-30**	Water	06/18/24 16:03	06/19/24 09:00
60455196006	**Trip Blank**	Water	06/17/24 00:00	06/19/24 09:00
60455196007	**HP-28**	Water	06/18/24 16:27	06/19/24 09:00

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SAMPLE ANALYTE COUNT

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60455196001	**HP-27**	EPA 8260D	DYW	68	PAN
60455196002	**Dup-01**	EPA 8260D	DWR, JHH	68	PAN
60455196003	**HP-31**	EPA 8260D	DWR, JHH	68	PAN
60455196004	**HP-29**	EPA 8260D	DWR, JHH	68	PAN
60455196005	**HP-30**	EPA 8260D	JHH	68	PAN
60455196006	**Trip Blank**	EPA 8260D	JAH	68	PAN
60455196007	**HP-28**	EPA 8260D	JHH	68	PAN

PAN = Pace National - Mt. Juliet

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 24, 2024

General Information:
7 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 2309239

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: R4084618-1)
  - Bromochloromethane

QC Batch: 2309522

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: R4084867-1)
  - Styrene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 24, 2024

Analyte Comments:

QC Batch: 2308499

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-27 (Lab ID: 60455196001)
  - Acetone
- Trip Blank (Lab ID: 60455196006)
  - Acetone

QC Batch: 2309522

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- Dup-01 (Lab ID: 60455196002)
  - Styrene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-27 **Lab ID: 60455196001** Collected: 06/17/24 18:44 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/20/24 17:25	06/20/24 17:25	67-64-1	C3
Benzene	ND	ug/L	1.00	0.0941	1	06/20/24 17:25	06/20/24 17:25	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/20/24 17:25	06/20/24 17:25	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/20/24 17:25	06/20/24 17:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/20/24 17:25	06/20/24 17:25	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/20/24 17:25	06/20/24 17:25	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/20/24 17:25	06/20/24 17:25	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/20/24 17:25	06/20/24 17:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/20/24 17:25	06/20/24 17:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/20/24 17:25	06/20/24 17:25	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/20/24 17:25	06/20/24 17:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/20/24 17:25	06/20/24 17:25	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/20/24 17:25	06/20/24 17:25	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/20/24 17:25	06/20/24 17:25	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/20/24 17:25	06/20/24 17:25	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/20/24 17:25	06/20/24 17:25	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/20/24 17:25	06/20/24 17:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/20/24 17:25	06/20/24 17:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/20/24 17:25	06/20/24 17:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/20/24 17:25	06/20/24 17:25	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/20/24 17:25	06/20/24 17:25	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/20/24 17:25	06/20/24 17:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/20/24 17:25	06/20/24 17:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/20/24 17:25	06/20/24 17:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/20/24 17:25	06/20/24 17:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/20/24 17:25	06/20/24 17:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/20/24 17:25	06/20/24 17:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/20/24 17:25	06/20/24 17:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/20/24 17:25	06/20/24 17:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/20/24 17:25	06/20/24 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/20/24 17:25	06/20/24 17:25	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/20/24 17:25	06/20/24 17:25	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/20/24 17:25	06/20/24 17:25	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/20/24 17:25	06/20/24 17:25	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/20/24 17:25	06/20/24 17:25	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/20/24 17:25	06/20/24 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/20/24 17:25	06/20/24 17:25	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/20/24 17:25	06/20/24 17:25	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/20/24 17:25	06/20/24 17:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/20/24 17:25	06/20/24 17:25	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/20/24 17:25	06/20/24 17:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/20/24 17:25	06/20/24 17:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/20/24 17:25	06/20/24 17:25	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/20/24 17:25	06/20/24 17:25	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/20/24 17:25	06/20/24 17:25	75-09-2	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-27 **Lab ID: 60455196001** Collected: 06/17/24 18:44 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/20/24 17:25	06/20/24 17:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/20/24 17:25	06/20/24 17:25	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/20/24 17:25	06/20/24 17:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/20/24 17:25	06/20/24 17:25	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/20/24 17:25	06/20/24 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/20/24 17:25	06/20/24 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/20/24 17:25	06/20/24 17:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/20/24 17:25	06/20/24 17:25	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/20/24 17:25	06/20/24 17:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/20/24 17:25	06/20/24 17:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/20/24 17:25	06/20/24 17:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/20/24 17:25	06/20/24 17:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/20/24 17:25	06/20/24 17:25	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/20/24 17:25	06/20/24 17:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/20/24 17:25	06/20/24 17:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/20/24 17:25	06/20/24 17:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/20/24 17:25	06/20/24 17:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/20/24 17:25	06/20/24 17:25	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/20/24 17:25	06/20/24 17:25	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/20/24 17:25	06/20/24 17:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80.0-120		1	06/20/24 17:25	06/20/24 17:25	2037-26-5	
4-Bromofluorobenzene (S)	77.4	%	77.0-126		1	06/20/24 17:25	06/20/24 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130		1	06/20/24 17:25	06/20/24 17:25	17060-07-0	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: Dup-01 **Lab ID: 60455196002** Collected: 06/17/24 18:47 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/20/24 23:24	06/20/24 23:24	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/21/24 12:19	06/21/24 12:19	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/20/24 23:24	06/20/24 23:24	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/20/24 23:24	06/20/24 23:24	74-97-5	L0
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/20/24 23:24	06/20/24 23:24	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/20/24 23:24	06/20/24 23:24	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/20/24 23:24	06/20/24 23:24	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/20/24 23:24	06/20/24 23:24	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/20/24 23:24	06/20/24 23:24	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/20/24 23:24	06/20/24 23:24	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/20/24 23:24	06/20/24 23:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/20/24 23:24	06/20/24 23:24	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/20/24 23:24	06/20/24 23:24	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/20/24 23:24	06/20/24 23:24	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/20/24 23:24	06/20/24 23:24	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/20/24 23:24	06/20/24 23:24	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/20/24 23:24	06/20/24 23:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/20/24 23:24	06/20/24 23:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/20/24 23:24	06/20/24 23:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/20/24 23:24	06/20/24 23:24	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/20/24 23:24	06/20/24 23:24	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/20/24 23:24	06/20/24 23:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/20/24 23:24	06/20/24 23:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/20/24 23:24	06/20/24 23:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/20/24 23:24	06/20/24 23:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/20/24 23:24	06/20/24 23:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/20/24 23:24	06/20/24 23:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/20/24 23:24	06/20/24 23:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/20/24 23:24	06/20/24 23:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/20/24 23:24	06/20/24 23:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/20/24 23:24	06/20/24 23:24	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/20/24 23:24	06/20/24 23:24	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/20/24 23:24	06/20/24 23:24	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/20/24 23:24	06/20/24 23:24	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/20/24 23:24	06/20/24 23:24	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/20/24 23:24	06/20/24 23:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/20/24 23:24	06/20/24 23:24	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/20/24 23:24	06/20/24 23:24	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/21/24 12:19	06/21/24 12:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/20/24 23:24	06/20/24 23:24	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/20/24 23:24	06/20/24 23:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/21/24 12:19	06/21/24 12:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/20/24 23:24	06/20/24 23:24	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/20/24 23:24	06/20/24 23:24	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/20/24 23:24	06/20/24 23:24	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: Dup-01 **Lab ID: 60455196002** Collected: 06/17/24 18:47 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/20/24 23:24	06/20/24 23:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/20/24 23:24	06/20/24 23:24	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/21/24 12:19	06/21/24 12:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/21/24 12:19	06/21/24 12:19	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/21/24 12:19	06/21/24 12:19	100-42-5	C3,L0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/20/24 23:24	06/20/24 23:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/20/24 23:24	06/20/24 23:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/20/24 23:24	06/20/24 23:24	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/21/24 12:19	06/21/24 12:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/20/24 23:24	06/20/24 23:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/20/24 23:24	06/20/24 23:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/20/24 23:24	06/20/24 23:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/20/24 23:24	06/20/24 23:24	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/20/24 23:24	06/20/24 23:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/20/24 23:24	06/20/24 23:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/20/24 23:24	06/20/24 23:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/21/24 12:19	06/21/24 12:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/21/24 12:19	06/21/24 12:19	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/20/24 23:24	06/20/24 23:24	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/21/24 12:19	06/21/24 12:19	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%	80.0-120		1	06/20/24 23:24	06/20/24 23:24	2037-26-5	
Toluene-d8 (S)	117	%	80.0-120		1	06/21/24 12:19	06/21/24 12:19	2037-26-5	
4-Bromofluorobenzene (S)	107	%	77.0-126		1	06/20/24 23:24	06/20/24 23:24	460-00-4	
4-Bromofluorobenzene (S)	114	%	77.0-126		1	06/21/24 12:19	06/21/24 12:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	06/20/24 23:24	06/20/24 23:24	17060-07-0	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	06/21/24 12:19	06/21/24 12:19	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-31 **Lab ID: 60455196003** Collected: 06/18/24 10:48 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/20/24 23:44	06/20/24 23:44	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/20/24 23:44	06/20/24 23:44	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/20/24 23:44	06/20/24 23:44	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/20/24 23:44	06/20/24 23:44	74-97-5	L0
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/20/24 23:44	06/20/24 23:44	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/20/24 23:44	06/20/24 23:44	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/20/24 23:44	06/20/24 23:44	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/20/24 23:44	06/20/24 23:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/20/24 23:44	06/20/24 23:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/20/24 23:44	06/20/24 23:44	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/20/24 23:44	06/20/24 23:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/20/24 23:44	06/20/24 23:44	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/20/24 23:44	06/20/24 23:44	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/20/24 23:44	06/20/24 23:44	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/20/24 23:44	06/20/24 23:44	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/20/24 23:44	06/20/24 23:44	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/20/24 23:44	06/20/24 23:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/20/24 23:44	06/20/24 23:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/20/24 23:44	06/20/24 23:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/20/24 23:44	06/20/24 23:44	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/20/24 23:44	06/20/24 23:44	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/20/24 23:44	06/20/24 23:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/20/24 23:44	06/20/24 23:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/20/24 23:44	06/20/24 23:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/20/24 23:44	06/20/24 23:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/20/24 23:44	06/20/24 23:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/20/24 23:44	06/20/24 23:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/20/24 23:44	06/20/24 23:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/20/24 23:44	06/20/24 23:44	75-35-4	
cis-1,2-Dichloroethene	**3.36**	ug/L	1.00	0.126	1	06/20/24 23:44	06/20/24 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/20/24 23:44	06/20/24 23:44	156-60-5	
1,2-Dichloroethene (Total)	**3.36**	ug/L	1.00	0.656	1	06/20/24 23:44	06/20/24 23:44	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/20/24 23:44	06/20/24 23:44	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/20/24 23:44	06/20/24 23:44	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/20/24 23:44	06/20/24 23:44	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/20/24 23:44	06/20/24 23:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/20/24 23:44	06/20/24 23:44	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/20/24 23:44	06/20/24 23:44	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/20/24 23:44	06/20/24 23:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/20/24 23:44	06/20/24 23:44	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/20/24 23:44	06/20/24 23:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/20/24 23:44	06/20/24 23:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/20/24 23:44	06/20/24 23:44	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/20/24 23:44	06/20/24 23:44	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/20/24 23:44	06/20/24 23:44	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-31 **Lab ID: 60455196003** Collected: 06/18/24 10:48 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/20/24 23:44	06/20/24 23:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/20/24 23:44	06/20/24 23:44	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/20/24 23:44	06/20/24 23:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/21/24 12:43	06/21/24 12:43	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/20/24 23:44	06/20/24 23:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/20/24 23:44	06/20/24 23:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/20/24 23:44	06/20/24 23:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/20/24 23:44	06/20/24 23:44	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/20/24 23:44	06/20/24 23:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/20/24 23:44	06/20/24 23:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/20/24 23:44	06/20/24 23:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/20/24 23:44	06/20/24 23:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/20/24 23:44	06/20/24 23:44	79-00-5	
Trichloroethene	**16.6**	ug/L	1.00	0.190	1	06/20/24 23:44	06/20/24 23:44	79-01-6	
Trichlorofluoromethane	**0.789J**	ug/L	5.00	0.160	1	06/20/24 23:44	06/20/24 23:44	75-69-4	J
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/20/24 23:44	06/20/24 23:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/21/24 12:43	06/21/24 12:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/21/24 12:43	06/21/24 12:43	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/20/24 23:44	06/20/24 23:44	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/21/24 12:43	06/21/24 12:43	1330-20-7	
Surrogates									
Toluene-d8 (S)	114	%	80.0-120		1	06/20/24 23:44	06/20/24 23:44	2037-26-5	
Toluene-d8 (S)	115	%	80.0-120		1	06/21/24 12:43	06/21/24 12:43	2037-26-5	
4-Bromofluorobenzene (S)	108	%	77.0-126		1	06/20/24 23:44	06/20/24 23:44	460-00-4	
4-Bromofluorobenzene (S)	110	%	77.0-126		1	06/21/24 12:43	06/21/24 12:43	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	06/20/24 23:44	06/20/24 23:44	17060-07-0	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130		1	06/21/24 12:43	06/21/24 12:43	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-29 **Lab ID: 60455196004** Collected: 06/18/24 12:05 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/21/24 00:05	06/21/24 00:05	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/21/24 00:05	06/21/24 00:05	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/21/24 00:05	06/21/24 00:05	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/21/24 00:05	06/21/24 00:05	74-97-5	L0
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/21/24 00:05	06/21/24 00:05	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/21/24 00:05	06/21/24 00:05	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/21/24 00:05	06/21/24 00:05	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/21/24 00:05	06/21/24 00:05	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/21/24 00:05	06/21/24 00:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/21/24 00:05	06/21/24 00:05	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/21/24 00:05	06/21/24 00:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/21/24 00:05	06/21/24 00:05	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/21/24 00:05	06/21/24 00:05	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/21/24 00:05	06/21/24 00:05	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/21/24 00:05	06/21/24 00:05	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/21/24 00:05	06/21/24 00:05	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/21/24 00:05	06/21/24 00:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/21/24 00:05	06/21/24 00:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/21/24 00:05	06/21/24 00:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/21/24 00:05	06/21/24 00:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/21/24 00:05	06/21/24 00:05	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/21/24 00:05	06/21/24 00:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/21/24 00:05	06/21/24 00:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/21/24 00:05	06/21/24 00:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/21/24 00:05	06/21/24 00:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/21/24 00:05	06/21/24 00:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/21/24 00:05	06/21/24 00:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/21/24 00:05	06/21/24 00:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/21/24 00:05	06/21/24 00:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/21/24 00:05	06/21/24 00:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/21/24 00:05	06/21/24 00:05	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/21/24 00:05	06/21/24 00:05	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/21/24 00:05	06/21/24 00:05	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/21/24 00:05	06/21/24 00:05	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/21/24 00:05	06/21/24 00:05	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/21/24 00:05	06/21/24 00:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/21/24 00:05	06/21/24 00:05	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/21/24 00:05	06/21/24 00:05	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/21/24 00:05	06/21/24 00:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/21/24 00:05	06/21/24 00:05	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/21/24 00:05	06/21/24 00:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/21/24 00:05	06/21/24 00:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/21/24 00:05	06/21/24 00:05	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/21/24 00:05	06/21/24 00:05	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/21/24 00:05	06/21/24 00:05	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-29 **Lab ID: 60455196004** Collected: 06/18/24 12:05 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/21/24 00:05	06/21/24 00:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/21/24 00:05	06/21/24 00:05	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/21/24 00:05	06/21/24 00:05	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/21/24 00:05	06/21/24 00:05	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/21/24 00:05	06/21/24 00:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/21/24 00:05	06/21/24 00:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/21/24 00:05	06/21/24 00:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/21/24 00:05	06/21/24 00:05	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/21/24 00:05	06/21/24 00:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/21/24 00:05	06/21/24 00:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/21/24 00:05	06/21/24 00:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/21/24 00:05	06/21/24 00:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/21/24 00:05	06/21/24 00:05	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/21/24 00:05	06/21/24 00:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/21/24 00:05	06/21/24 00:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/21/24 00:05	06/21/24 00:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/21/24 13:07	06/21/24 13:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/21/24 00:05	06/21/24 00:05	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/21/24 00:05	06/21/24 00:05	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/21/24 00:05	06/21/24 00:05	1330-20-7	
Surrogates									
Toluene-d8 (S)	115	%	80.0-120		1	06/21/24 00:05	06/21/24 00:05	2037-26-5	
Toluene-d8 (S)	117	%	80.0-120		1	06/21/24 13:07	06/21/24 13:07	2037-26-5	
4-Bromofluorobenzene (S)	107	%	77.0-126		1	06/21/24 00:05	06/21/24 00:05	460-00-4	
4-Bromofluorobenzene (S)	110	%	77.0-126		1	06/21/24 13:07	06/21/24 13:07	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1	06/21/24 00:05	06/21/24 00:05	17060-07-0	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	06/21/24 13:07	06/21/24 13:07	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-30 **Lab ID: 60455196005** Collected: 06/18/24 16:03 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**12.6J**	ug/L	50.0	11.3	1	06/21/24 00:25	06/21/24 00:25	67-64-1	J
Benzene	ND	ug/L	1.00	0.0941	1	06/21/24 00:25	06/21/24 00:25	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/21/24 00:25	06/21/24 00:25	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/21/24 00:25	06/21/24 00:25	74-97-5	L0
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/21/24 00:25	06/21/24 00:25	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/21/24 00:25	06/21/24 00:25	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/21/24 00:25	06/21/24 00:25	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/21/24 00:25	06/21/24 00:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/21/24 00:25	06/21/24 00:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/21/24 00:25	06/21/24 00:25	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/21/24 00:25	06/21/24 00:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/21/24 00:25	06/21/24 00:25	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/21/24 00:25	06/21/24 00:25	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/21/24 00:25	06/21/24 00:25	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/21/24 00:25	06/21/24 00:25	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/21/24 00:25	06/21/24 00:25	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/21/24 00:25	06/21/24 00:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/21/24 00:25	06/21/24 00:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/21/24 00:25	06/21/24 00:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/21/24 00:25	06/21/24 00:25	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/21/24 00:25	06/21/24 00:25	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/21/24 00:25	06/21/24 00:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/21/24 00:25	06/21/24 00:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/21/24 00:25	06/21/24 00:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/21/24 00:25	06/21/24 00:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/21/24 00:25	06/21/24 00:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/21/24 00:25	06/21/24 00:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/21/24 00:25	06/21/24 00:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/21/24 00:25	06/21/24 00:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/21/24 00:25	06/21/24 00:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/21/24 00:25	06/21/24 00:25	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/21/24 00:25	06/21/24 00:25	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/21/24 00:25	06/21/24 00:25	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/21/24 00:25	06/21/24 00:25	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/21/24 00:25	06/21/24 00:25	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/21/24 00:25	06/21/24 00:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/21/24 00:25	06/21/24 00:25	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/21/24 00:25	06/21/24 00:25	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/21/24 00:25	06/21/24 00:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/21/24 00:25	06/21/24 00:25	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/21/24 00:25	06/21/24 00:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/21/24 00:25	06/21/24 00:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/21/24 00:25	06/21/24 00:25	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/21/24 00:25	06/21/24 00:25	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/21/24 00:25	06/21/24 00:25	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-30 **Lab ID: 60455196005** Collected: 06/18/24 16:03 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/21/24 00:25	06/21/24 00:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/21/24 00:25	06/21/24 00:25	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/21/24 00:25	06/21/24 00:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/21/24 00:25	06/21/24 00:25	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/21/24 00:25	06/21/24 00:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/21/24 00:25	06/21/24 00:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/21/24 00:25	06/21/24 00:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/21/24 00:25	06/21/24 00:25	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/21/24 00:25	06/21/24 00:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/21/24 00:25	06/21/24 00:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/21/24 00:25	06/21/24 00:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/21/24 00:25	06/21/24 00:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/21/24 00:25	06/21/24 00:25	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/21/24 00:25	06/21/24 00:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/21/24 00:25	06/21/24 00:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/21/24 00:25	06/21/24 00:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/21/24 00:25	06/21/24 00:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/21/24 00:25	06/21/24 00:25	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/21/24 00:25	06/21/24 00:25	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/21/24 00:25	06/21/24 00:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	115	%	80.0-120		1	06/21/24 00:25	06/21/24 00:25	2037-26-5	
4-Bromofluorobenzene (S)	111	%	77.0-126		1	06/21/24 00:25	06/21/24 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1	06/21/24 00:25	06/21/24 00:25	17060-07-0	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: Trip Blank **Lab ID: 60455196006** Collected: 06/17/24 00:00 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/20/24 08:16	06/20/24 08:16	67-64-1	C3
Benzene	ND	ug/L	1.00	0.0941	1	06/20/24 08:16	06/20/24 08:16	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/20/24 08:16	06/20/24 08:16	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/20/24 08:16	06/20/24 08:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/20/24 08:16	06/20/24 08:16	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/20/24 08:16	06/20/24 08:16	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/20/24 08:16	06/20/24 08:16	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/20/24 08:16	06/20/24 08:16	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/20/24 08:16	06/20/24 08:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/20/24 08:16	06/20/24 08:16	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/20/24 08:16	06/20/24 08:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/20/24 08:16	06/20/24 08:16	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/20/24 08:16	06/20/24 08:16	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/20/24 08:16	06/20/24 08:16	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/20/24 08:16	06/20/24 08:16	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/20/24 08:16	06/20/24 08:16	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/20/24 08:16	06/20/24 08:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/20/24 08:16	06/20/24 08:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/20/24 08:16	06/20/24 08:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/20/24 08:16	06/20/24 08:16	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/20/24 08:16	06/20/24 08:16	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/20/24 08:16	06/20/24 08:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/20/24 08:16	06/20/24 08:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/20/24 08:16	06/20/24 08:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/20/24 08:16	06/20/24 08:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/20/24 08:16	06/20/24 08:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/20/24 08:16	06/20/24 08:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/20/24 08:16	06/20/24 08:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/20/24 08:16	06/20/24 08:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/20/24 08:16	06/20/24 08:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/20/24 08:16	06/20/24 08:16	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/20/24 08:16	06/20/24 08:16	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/20/24 08:16	06/20/24 08:16	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/20/24 08:16	06/20/24 08:16	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/20/24 08:16	06/20/24 08:16	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/20/24 08:16	06/20/24 08:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/20/24 08:16	06/20/24 08:16	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/20/24 08:16	06/20/24 08:16	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/20/24 08:16	06/20/24 08:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/20/24 08:16	06/20/24 08:16	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/20/24 08:16	06/20/24 08:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/20/24 08:16	06/20/24 08:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/20/24 08:16	06/20/24 08:16	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/20/24 08:16	06/20/24 08:16	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/20/24 08:16	06/20/24 08:16	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: Trip Blank **Lab ID: 60455196006** Collected: 06/17/24 00:00 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/20/24 08:16	06/20/24 08:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/20/24 08:16	06/20/24 08:16	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/20/24 08:16	06/20/24 08:16	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/20/24 08:16	06/20/24 08:16	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/20/24 08:16	06/20/24 08:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/20/24 08:16	06/20/24 08:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/20/24 08:16	06/20/24 08:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/20/24 08:16	06/20/24 08:16	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/20/24 08:16	06/20/24 08:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/20/24 08:16	06/20/24 08:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/20/24 08:16	06/20/24 08:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/20/24 08:16	06/20/24 08:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/20/24 08:16	06/20/24 08:16	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/20/24 08:16	06/20/24 08:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/20/24 08:16	06/20/24 08:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/20/24 08:16	06/20/24 08:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/20/24 08:16	06/20/24 08:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/20/24 08:16	06/20/24 08:16	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/20/24 08:16	06/20/24 08:16	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/20/24 08:16	06/20/24 08:16	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80.0-120		1	06/20/24 08:16	06/20/24 08:16	2037-26-5	
4-Bromofluorobenzene (S)	99.9	%	77.0-126		1	06/20/24 08:16	06/20/24 08:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130		1	06/20/24 08:16	06/20/24 08:16	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-28 **Lab ID: 60455196007** Collected: 06/18/24 16:27 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**361**	ug/L	50.0	11.3	1	06/21/24 00:46	06/21/24 00:46	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/21/24 00:46	06/21/24 00:46	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/21/24 00:46	06/21/24 00:46	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/21/24 00:46	06/21/24 00:46	74-97-5	L0
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/21/24 00:46	06/21/24 00:46	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/21/24 00:46	06/21/24 00:46	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/21/24 00:46	06/21/24 00:46	74-83-9	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/21/24 00:46	06/21/24 00:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/21/24 00:46	06/21/24 00:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/21/24 00:46	06/21/24 00:46	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/21/24 00:46	06/21/24 00:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/21/24 00:46	06/21/24 00:46	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/21/24 00:46	06/21/24 00:46	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/21/24 00:46	06/21/24 00:46	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/21/24 00:46	06/21/24 00:46	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/21/24 00:46	06/21/24 00:46	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/21/24 00:46	06/21/24 00:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/21/24 00:46	06/21/24 00:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/21/24 00:46	06/21/24 00:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/21/24 00:46	06/21/24 00:46	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/21/24 00:46	06/21/24 00:46	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/21/24 00:46	06/21/24 00:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/21/24 00:46	06/21/24 00:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/21/24 00:46	06/21/24 00:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/21/24 00:46	06/21/24 00:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/21/24 00:46	06/21/24 00:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/21/24 00:46	06/21/24 00:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/21/24 00:46	06/21/24 00:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/21/24 00:46	06/21/24 00:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/21/24 00:46	06/21/24 00:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/21/24 00:46	06/21/24 00:46	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/21/24 00:46	06/21/24 00:46	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/21/24 00:46	06/21/24 00:46	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/21/24 00:46	06/21/24 00:46	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/21/24 00:46	06/21/24 00:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/21/24 00:46	06/21/24 00:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/21/24 00:46	06/21/24 00:46	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/21/24 00:46	06/21/24 00:46	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/21/24 00:46	06/21/24 00:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/21/24 00:46	06/21/24 00:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/21/24 00:46	06/21/24 00:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/21/24 00:46	06/21/24 00:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/21/24 00:46	06/21/24 00:46	99-87-6	
2-Butanone (MEK)	**1.79J**	ug/L	10.0	1.19	1	06/21/24 00:46	06/21/24 00:46	78-93-3	J
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/21/24 00:46	06/21/24 00:46	75-09-2	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Sample: HP-28 **Lab ID: 60455196007** Collected: 06/18/24 16:27 Received: 06/19/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/21/24 00:46	06/21/24 00:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/21/24 00:46	06/21/24 00:46	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/21/24 00:46	06/21/24 00:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/21/24 00:46	06/21/24 00:46	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/21/24 00:46	06/21/24 00:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/21/24 00:46	06/21/24 00:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/21/24 00:46	06/21/24 00:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/21/24 00:46	06/21/24 00:46	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/21/24 00:46	06/21/24 00:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/21/24 00:46	06/21/24 00:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/21/24 00:46	06/21/24 00:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/21/24 00:46	06/21/24 00:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/21/24 00:46	06/21/24 00:46	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/21/24 00:46	06/21/24 00:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/21/24 00:46	06/21/24 00:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/21/24 00:46	06/21/24 00:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/21/24 00:46	06/21/24 00:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/21/24 00:46	06/21/24 00:46	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/21/24 00:46	06/21/24 00:46	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/21/24 00:46	06/21/24 00:46	1330-20-7	
Surrogates									
Toluene-d8 (S)	114	%	80.0-120		1	06/21/24 00:46	06/21/24 00:46	2037-26-5	
4-Bromofluorobenzene (S)	108	%	77.0-126		1	06/21/24 00:46	06/21/24 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	06/21/24 00:46	06/21/24 00:46	17060-07-0	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

QC Batch: 2308499
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455196001, 60455196006

METHOD BLANK: R4084103-3 Matrix: Water
Associated Lab Samples: 60455196001, 60455196006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/20/24 07:28	
Benzene	ug/L	ND	1.00	0.0941	06/20/24 07:28	
Bromobenzene	ug/L	ND	1.00	0.118	06/20/24 07:28	
Bromochloromethane	ug/L	ND	1.00	0.128	06/20/24 07:28	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/20/24 07:28	
Bromoform	ug/L	ND	1.00	0.129	06/20/24 07:28	
Bromomethane	ug/L	ND	5.00	0.605	06/20/24 07:28	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/20/24 07:28	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/20/24 07:28	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/20/24 07:28	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/20/24 07:28	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/20/24 07:28	
Chlorobenzene	ug/L	ND	1.00	0.116	06/20/24 07:28	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/20/24 07:28	
Chloroethane	ug/L	ND	5.00	0.192	06/20/24 07:28	
Chloroform	ug/L	ND	5.00	0.111	06/20/24 07:28	
Chloromethane	ug/L	ND	2.50	0.960	06/20/24 07:28	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/20/24 07:28	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/20/24 07:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/20/24 07:28	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/20/24 07:28	
Dibromomethane	ug/L	ND	1.00	0.122	06/20/24 07:28	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/20/24 07:28	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/20/24 07:28	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/20/24 07:28	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/20/24 07:28	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/20/24 07:28	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/20/24 07:28	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/20/24 07:28	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/20/24 07:28	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/20/24 07:28	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/20/24 07:28	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/20/24 07:28	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/20/24 07:28	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/20/24 07:28	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/20/24 07:28	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/20/24 07:28	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/20/24 07:28	
Ethylbenzene	ug/L	ND	1.00	0.137	06/20/24 07:28	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/20/24 07:28	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

METHOD BLANK: R4084103-3 Matrix: Water
Associated Lab Samples: 60455196001, 60455196006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/20/24 07:28	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/20/24 07:28	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/20/24 07:28	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/20/24 07:28	
Methylene Chloride	ug/L	ND	5.00	0.430	06/20/24 07:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/20/24 07:28	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/20/24 07:28	
Naphthalene	ug/L	ND	5.00	1.00	06/20/24 07:28	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/20/24 07:28	
Styrene	ug/L	ND	1.00	0.118	06/20/24 07:28	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/20/24 07:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/20/24 07:28	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/20/24 07:28	
Toluene	ug/L	ND	1.00	0.278	06/20/24 07:28	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/20/24 07:28	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/20/24 07:28	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/20/24 07:28	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/20/24 07:28	
Trichloroethene	ug/L	ND	1.00	0.190	06/20/24 07:28	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/20/24 07:28	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/20/24 07:28	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/20/24 07:28	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/20/24 07:28	
Vinyl chloride	ug/L	ND	1.00	0.234	06/20/24 07:28	
Xylene (Total)	ug/L	ND	3.00	0.174	06/20/24 07:28	
Toluene-d8 (S)	%	106	80.0-120		06/20/24 07:28	
4-Bromofluorobenzene (S)	%	104	77.0-126		06/20/24 07:28	
1,2-Dichloroethane-d4 (S)	%	108	70.0-130		06/20/24 07:28	

LABORATORY CONTROL SAMPLE & LCSD: R4084103-1 R4084103-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/L	25.0	18.6J	21.3J	74.4	85.2	19.0-160	13.5	27	J
Benzene	ug/L	5.00	4.81	4.64	96.2	92.8	70.0-123	3.60	20	
Bromobenzene	ug/L	5.00	4.82	4.75	96.4	95.0	73.0-121	1.46	20	
Bromochloromethane	ug/L	5.00	4.77	4.42	95.4	88.4	76.0-122	7.62	20	
Bromodichloromethane	ug/L	5.00	4.84	4.65	96.8	93.0	75.0-120	4.00	20	
Bromoform	ug/L	5.00	4.35	4.12	87.0	82.4	68.0-132	5.43	20	
Bromomethane	ug/L	5.00	5.17	5.08	103	102	10.0-160	1.76	25	
n-Butylbenzene	ug/L	5.00	4.71	4.40	94.2	88.0	73.0-125	6.81	20	
sec-Butylbenzene	ug/L	5.00	5.05	4.78	101	95.6	75.0-125	5.49	20	
tert-Butylbenzene	ug/L	5.00	4.94	4.80	98.8	96.0	76.0-124	2.87	20	
Carbon disulfide	ug/L	5.00	4.75	4.60	95.0	92.0	61.0-128	3.21	20	
Carbon tetrachloride	ug/L	5.00	4.55	4.25	91.0	85.0	68.0-126	6.82	20	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

LABORATORY CONTROL SAMPLE & LCSD: R4084103-1 R4084103-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chlorobenzene	ug/L	5.00	4.72	4.74	94.4	94.8	80.0-121	0.423	20	
Dibromochloromethane	ug/L	5.00	4.46	4.30	89.2	86.0	77.0-125	3.65	20	
Chloroethane	ug/L	5.00	5.65	5.53	113	111	47.0-150	2.15	20	
Chloroform	ug/L	5.00	4.79J	4.66J	95.8	93.2	73.0-120	2.75	20	J
Chloromethane	ug/L	5.00	5.36	5.22	107	104	41.0-142	2.65	20	
2-Chlorotoluene	ug/L	5.00	4.95	4.79	99.0	95.8	76.0-123	3.29	20	
4-Chlorotoluene	ug/L	5.00	4.96	4.79	99.2	95.8	75.0-122	3.49	20	
1,2-Dibromo-3-chloropropane	ug/L	5.00	4.23J	4.39J	84.6	87.8	58.0-134	3.71	20	J
1,2-Dibromoethane (EDB)	ug/L	5.00	4.70	4.87	94.0	97.4	80.0-122	3.55	20	
Dibromomethane	ug/L	5.00	5.14	5.09	103	102	80.0-120	0.978	20	
1,2-Dichlorobenzene	ug/L	5.00	4.77	4.67	95.4	93.4	79.0-121	2.12	20	
1,3-Dichlorobenzene	ug/L	5.00	4.75	4.75	95.0	95.0	79.0-120	0.00	20	
1,4-Dichlorobenzene	ug/L	5.00	4.71	4.63	94.2	92.6	79.0-120	1.71	20	
Dichlorodifluoromethane	ug/L	5.00	4.12J	3.95J	82.4	79.0	51.0-149	4.21	20	J
1,1-Dichloroethane	ug/L	5.00	5.06	4.90	101	98.0	70.0-126	3.21	20	
1,2-Dichloroethane	ug/L	5.00	5.29	5.19	106	104	70.0-128	1.91	20	
1,1-Dichloroethene	ug/L	5.00	5.18	4.91	104	98.2	71.0-124	5.35	20	
cis-1,2-Dichloroethene	ug/L	5.00	4.87	4.72	97.4	94.4	73.0-120	3.13	20	
trans-1,2-Dichloroethene	ug/L	5.00	4.54	4.56	90.8	91.2	73.0-120	0.440	20	
1,2-Dichloroethene (Total)	ug/L	10.0	9.41	9.28	94.1	92.8	70.0-130	1.39	20	
1,2-Dichloropropane	ug/L	5.00	5.32	4.94	106	98.8	77.0-125	7.41	20	
1,1-Dichloropropene	ug/L	5.00	5.08	4.75	102	95.0	74.0-126	6.71	20	
1,3-Dichloropropane	ug/L	5.00	5.08	5.07	102	101	80.0-120	0.197	20	
cis-1,3-Dichloropropene	ug/L	5.00	4.62	4.46	92.4	89.2	80.0-123	3.52	20	
trans-1,3-Dichloropropene	ug/L	5.00	4.63	4.71	92.6	94.2	78.0-124	1.71	20	
2,2-Dichloropropane	ug/L	5.00	5.46	5.16	109	103	58.0-130	5.65	20	
Ethylbenzene	ug/L	5.00	4.69	4.58	93.8	91.6	79.0-123	2.37	20	
Hexachloro-1,3-butadiene	ug/L	5.00	4.92	4.73	98.4	94.6	54.0-138	3.94	20	
2-Hexanone	ug/L	25.0	24.1	24.0	96.4	96.0	67.0-149	0.416	20	
Isopropylbenzene (Cumene)	ug/L	5.00	4.86	4.68	97.2	93.6	76.0-127	3.77	20	
p-Isopropyltoluene	ug/L	5.00	4.86	4.65	97.2	93.0	76.0-125	4.42	20	
2-Butanone (MEK)	ug/L	25.0	26.8	26.5	107	106	44.0-160	1.13	20	
Methylene Chloride	ug/L	5.00	4.47J	4.37J	89.4	87.4	67.0-120	2.26	20	J
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	28.0	28.0	112	112	68.0-142	0.00	20	
Methyl-tert-butyl ether	ug/L	5.00	4.93	5.00	98.6	100	68.0-125	1.41	20	
Naphthalene	ug/L	5.00	4.33J	4.25J	86.6	85.0	54.0-135	1.86	20	J
n-Propylbenzene	ug/L	5.00	4.94	4.75	98.8	95.0	77.0-124	3.92	20	
Styrene	ug/L	5.00	4.56	4.56	91.2	91.2	73.0-130	0.00	20	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.80	4.81	96.0	96.2	75.0-125	0.208	20	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.99	5.19	99.8	104	65.0-130	3.93	20	
Tetrachloroethene	ug/L	5.00	4.39	4.49	87.8	89.8	72.0-132	2.25	20	
Toluene	ug/L	5.00	4.76	4.67	95.2	93.4	79.0-120	1.91	20	
1,2,3-Trichlorobenzene	ug/L	5.00	4.07	4.02	81.4	80.4	50.0-138	1.24	20	
1,2,4-Trichlorobenzene	ug/L	5.00	4.10	4.01	82.0	80.2	57.0-137	2.22	20	
1,1,1-Trichloroethane	ug/L	5.00	5.55	5.32	111	106	73.0-124	4.23	20	
1,1,2-Trichloroethane	ug/L	5.00	4.91	4.88	98.2	97.6	80.0-120	0.613	20	
Trichloroethene	ug/L	5.00	4.69	4.43	93.8	88.6	78.0-124	5.70	20	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

LABORATORY CONTROL SAMPLE & LCSD: R4084103-1 R4084103-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.21	5.36	104	107	59.0-147	2.84	20	
1,2,3-Trichloropropane	ug/L	5.00	5.15	5.09	103	102	73.0-130	1.17	20	
1,2,4-Trimethylbenzene	ug/L	5.00	4.78	4.69	95.6	93.8	76.0-121	1.90	20	
1,3,5-Trimethylbenzene	ug/L	5.00	4.91	4.69	98.2	93.8	76.0-122	4.58	20	
Vinyl chloride	ug/L	5.00	5.61	5.18	112	104	67.0-131	7.97	20	
Xylene (Total)	ug/L	15.0	14.1	13.7	94.0	91.3	79.0-123	2.88	20	
Toluene-d8 (S)	%				104	105	80.0-120			
4-Bromofluorobenzene (S)	%				100	101	77.0-126			
1,2-Dichloroethane-d4 (S)	%				111	111	70.0-130			

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

QC Batch: 2309239
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455196002, 60455196003, 60455196004, 60455196005, 60455196007

METHOD BLANK: R4084618-3 Matrix: Water
Associated Lab Samples: 60455196002, 60455196003, 60455196004, 60455196005, 60455196007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/20/24 19:51	
Benzene	ug/L	ND	1.00	0.0941	06/20/24 19:51	
Bromobenzene	ug/L	ND	1.00	0.118	06/20/24 19:51	
Bromochloromethane	ug/L	ND	1.00	0.128	06/20/24 19:51	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/20/24 19:51	
Bromoform	ug/L	ND	1.00	0.129	06/20/24 19:51	
Bromomethane	ug/L	ND	5.00	0.605	06/20/24 19:51	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/20/24 19:51	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/20/24 19:51	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/20/24 19:51	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/20/24 19:51	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/20/24 19:51	
Chlorobenzene	ug/L	ND	1.00	0.116	06/20/24 19:51	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/20/24 19:51	
Chloroethane	ug/L	ND	5.00	0.192	06/20/24 19:51	
Chloroform	ug/L	ND	5.00	0.111	06/20/24 19:51	
Chloromethane	ug/L	ND	2.50	0.960	06/20/24 19:51	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/20/24 19:51	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/20/24 19:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/20/24 19:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/20/24 19:51	
Dibromomethane	ug/L	ND	1.00	0.122	06/20/24 19:51	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/20/24 19:51	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/20/24 19:51	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/20/24 19:51	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/20/24 19:51	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/20/24 19:51	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/20/24 19:51	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/20/24 19:51	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/20/24 19:51	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/20/24 19:51	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/20/24 19:51	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/20/24 19:51	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/20/24 19:51	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/20/24 19:51	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/20/24 19:51	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/20/24 19:51	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/20/24 19:51	
Ethylbenzene	ug/L	ND	1.00	0.137	06/20/24 19:51	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/20/24 19:51	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

METHOD BLANK: R4084618-3 Matrix: Water
Associated Lab Samples: 60455196002, 60455196003, 60455196004, 60455196005, 60455196007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/20/24 19:51	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/20/24 19:51	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/20/24 19:51	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/20/24 19:51	
Methylene Chloride	ug/L	ND	5.00	0.430	06/20/24 19:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/20/24 19:51	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/20/24 19:51	
Naphthalene	ug/L	ND	5.00	1.00	06/20/24 19:51	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/20/24 19:51	
Styrene	ug/L	ND	1.00	0.118	06/20/24 19:51	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/20/24 19:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/20/24 19:51	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/20/24 19:51	
Toluene	ug/L	ND	1.00	0.278	06/20/24 19:51	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/20/24 19:51	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/20/24 19:51	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/20/24 19:51	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/20/24 19:51	
Trichloroethene	ug/L	ND	1.00	0.190	06/20/24 19:51	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/20/24 19:51	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/20/24 19:51	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/20/24 19:51	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/20/24 19:51	
Vinyl chloride	ug/L	ND	1.00	0.234	06/20/24 19:51	
Xylene (Total)	ug/L	ND	3.00	0.174	06/20/24 19:51	
Toluene-d8 (S)	%	116	80.0-120		06/20/24 19:51	
4-Bromofluorobenzene (S)	%	111	77.0-126		06/20/24 19:51	
1,2-Dichloroethane-d4 (S)	%	101	70.0-130		06/20/24 19:51	

LABORATORY CONTROL SAMPLE: R4084618-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	27.7J	111	19.0-160	J
Benzene	ug/L	5.00	5.52	110	70.0-123	
Bromobenzene	ug/L	5.00	5.04	101	73.0-121	
Bromochloromethane	ug/L	5.00	6.19	124	76.0-122	L0
Bromodichloromethane	ug/L	5.00	5.30	106	75.0-120	
Bromoform	ug/L	5.00	5.23	105	68.0-132	
Bromomethane	ug/L	5.00	4.16J	83.2	10.0-160	J
n-Butylbenzene	ug/L	5.00	5.30	106	73.0-125	
sec-Butylbenzene	ug/L	5.00	5.72	114	75.0-125	
tert-Butylbenzene	ug/L	5.00	5.54	111	76.0-124	
Carbon disulfide	ug/L	5.00	5.34	107	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.71	114	68.0-126	

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(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

LABORATORY CONTROL SAMPLE: R4084618-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	5.00	5.72	114	80.0-121	
Dibromochloromethane	ug/L	5.00	5.45	109	77.0-125	
Chloroethane	ug/L	5.00	5.99	120	47.0-150	
Chloroform	ug/L	5.00	5.39	108	73.0-120	
Chloromethane	ug/L	5.00	5.50	110	41.0-142	
2-Chlorotoluene	ug/L	5.00	5.73	115	76.0-123	
4-Chlorotoluene	ug/L	5.00	5.21	104	75.0-122	
1,2-Dibromo-3-chloropropane	ug/L	5.00	4.61J	92.2	58.0-134	J
1,2-Dibromoethane (EDB)	ug/L	5.00	5.38	108	80.0-122	
Dibromomethane	ug/L	5.00	5.54	111	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	5.65	113	79.0-121	
1,3-Dichlorobenzene	ug/L	5.00	5.40	108	79.0-120	
1,4-Dichlorobenzene	ug/L	5.00	5.37	107	79.0-120	
Dichlorodifluoromethane	ug/L	5.00	5.61	112	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.54	111	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.47	109	70.0-128	
1,1-Dichloroethene	ug/L	5.00	5.49	110	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	5.37	107	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.82	116	73.0-120	
1,2-Dichloroethene (Total)	ug/L	10.0	11.2	112	70.0-130	
1,2-Dichloropropane	ug/L	5.00	5.19	104	77.0-125	
1,1-Dichloropropene	ug/L	5.00	5.67	113	74.0-126	
1,3-Dichloropropane	ug/L	5.00	5.53	111	80.0-120	
cis-1,3-Dichloropropene	ug/L	5.00	5.06	101	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	5.13	103	78.0-124	
2,2-Dichloropropane	ug/L	5.00	4.53	90.6	58.0-130	
Ethylbenzene	ug/L	5.00	5.73	115	79.0-123	
Hexachloro-1,3-butadiene	ug/L	5.00	5.41	108	54.0-138	
2-Hexanone	ug/L	25.0	26.3	105	67.0-149	
Isopropylbenzene (Cumene)	ug/L	5.00	5.87	117	76.0-127	
p-Isopropyltoluene	ug/L	5.00	5.42	108	76.0-125	
2-Butanone (MEK)	ug/L	25.0	25.3	101	44.0-160	
Methylene Chloride	ug/L	5.00	5.59	112	67.0-120	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	28.1	112	68.0-142	
Methyl-tert-butyl ether	ug/L	5.00	5.41	108	68.0-125	
Naphthalene	ug/L	5.00	4.35J	87.0	54.0-135	J
n-Propylbenzene	ug/L	5.00	5.54	111	77.0-124	
Styrene	ug/L	5.00	5.55	111	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	5.50	110	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	5.13	103	65.0-130	
Tetrachloroethene	ug/L	5.00	6.10	122	72.0-132	
Toluene	ug/L	5.00	5.91	118	79.0-120	
1,2,3-Trichlorobenzene	ug/L	5.00	5.57	111	50.0-138	
1,2,4-Trichlorobenzene	ug/L	5.00	5.07	101	57.0-137	
1,1,1-Trichloroethane	ug/L	5.00	5.66	113	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	5.66	113	80.0-120	
Trichloroethene	ug/L	5.00	5.67	113	78.0-124	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

LABORATORY CONTROL SAMPLE: R4084618-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.86	117	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.35	107	73.0-130	
1,2,4-Trimethylbenzene	ug/L	5.00	5.55	111	76.0-121	
1,3,5-Trimethylbenzene	ug/L	5.00	5.86	117	76.0-122	
Vinyl chloride	ug/L	5.00	5.66	113	67.0-131	
Xylene (Total)	ug/L	15.0	17.2	115	79.0-123	
Toluene-d8 (S)	%			110	80.0-120	
4-Bromofluorobenzene (S)	%			106	77.0-126	
1,2-Dichloroethane-d4 (S)	%			103	70.0-130	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

QC Batch: 2309522
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455196002, 60455196003, 60455196004

METHOD BLANK: R4084867-3 Matrix: Water
Associated Lab Samples: 60455196002, 60455196003, 60455196004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	ND	1.00	0.0941	06/21/24 11:33	
Ethylbenzene	ug/L	ND	1.00	0.137	06/21/24 11:33	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/21/24 11:33	
Naphthalene	ug/L	ND	5.00	1.00	06/21/24 11:33	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/21/24 11:33	
Styrene	ug/L	ND	1.00	0.118	06/21/24 11:33	
Toluene	ug/L	ND	1.00	0.278	06/21/24 11:33	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/21/24 11:33	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/21/24 11:33	
Xylene (Total)	ug/L	ND	3.00	0.174	06/21/24 11:33	
Toluene-d8 (S)	%	114	80.0-120		06/21/24 11:33	
4-Bromofluorobenzene (S)	%	110	77.0-126		06/21/24 11:33	
1,2-Dichloroethane-d4 (S)	%	103	70.0-130		06/21/24 11:33	

LABORATORY CONTROL SAMPLE & LCSD: R4084867-1 R4084867-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	5.00	4.20	4.81	84.0	96.2	70.0-123	13.5	20	
Ethylbenzene	ug/L	5.00	4.43	5.01	88.6	100	79.0-123	12.3	20	
Isopropylbenzene (Cumene)	ug/L	5.00	4.38	5.07	87.6	101	76.0-127	14.6	20	
Naphthalene	ug/L	5.00	4.10J	4.42J	82.0	88.4	54.0-135	7.51	20	J
n-Propylbenzene	ug/L	5.00	4.74	5.42	94.8	108	77.0-124	13.4	20	
Styrene	ug/L	5.00	3.43	3.94	68.6	78.8	73.0-130	13.8	20	L0
Toluene	ug/L	5.00	4.34	4.80	86.8	96.0	79.0-120	10.1	20	
1,2,4-Trimethylbenzene	ug/L	5.00	4.44	5.01	88.8	100	76.0-121	12.1	20	
1,3,5-Trimethylbenzene	ug/L	5.00	4.65	5.33	93.0	107	76.0-122	13.6	20	
Xylene (Total)	ug/L	15.0	12.6	15.3	84.0	102	79.0-123	19.4	20	
Toluene-d8 (S)	%				108	108	80.0-120			
4-Bromofluorobenzene (S)	%				107	107	77.0-126			
1,2-Dichloroethane-d4 (S)	%				103	105	70.0-130			

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QUALIFIERS

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940108230 Whirlpool
Pace Project No.: 60455196

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60455196001	**HP-27**	8260D	2308499	EPA 8260D	2308499
60455196002	**Dup-01**	8260D	2309239	EPA 8260D	2309239
60455196002	**Dup-01**	8260D	2309522	EPA 8260D	2309522
60455196003	**HP-31**	8260D	2309239	EPA 8260D	2309239
60455196003	**HP-31**	8260D	2309522	EPA 8260D	2309522
60455196004	**HP-29**	8260D	2309239	EPA 8260D	2309239
60455196004	**HP-29**	8260D	2309522	EPA 8260D	2309522
60455196005	**HP-30**	8260D	2309239	EPA 8260D	2309239
60455196006	**Trip Blank**	8260D	2308499	EPA 8260D	2308499
60455196007	**HP-28**	8260D	2309239	EPA 8260D	2309239

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for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1748174
C140

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort Smith AR

Phone: 7205198975
Fax:

Client Project # 1940108230

Lab Project #

Collected by (print): G. Penaflor

Site/Facility ID # Whirlpool

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed: End of Day 6/20/24

Quote #

Acctnum: **PACELKS**
Template:
Prelogin:
TSR: **Nolie Wood/McLain**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260	Remarks	Sample # (lab only)
HP-27	Grab	GW		6/17/24	1844	3	X		-01
Dup-01	Grab	GW		6/17/24	1847	3	X		-02
HP-31	Grab	GW		6/18/24	1048	3	X		-03
HP-29	Grab	GW		6/18/24	1205	3	X		-04
HP-30	Grab	GW		6/18/24	1603	3	X		-05
Trip Blank 01	Grab	—		6/17/24	—	2	X		-06
HP-28	Grab	GW		6/18/24	1627	3	X		-07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7146 2380 2751

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	6/18/24	1715		2 06	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: EDAG 27+03-30 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/19/24 Time: 900	Hold: / Condition: NCF / OK

Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L744174

C140

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort Smith AR

Phone: 7205198975
Fax:

Client Project # 1940108230

Lab Project #

Collected by (print): G. Penaflor

Site/Facility ID # Whirlpool

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
X Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed: End of Day 6/20/24

Quote #

Acctnum: **PACELKS**
Template:
Prelogin:
TSR: **Nolie Wood/McLain**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260								Remarks	Sample # (lab only)
HP-27	Grab	GW		6/17/24	1844	3	X									-01
Dup-01	Grab	GW		6/17/24	1847	3	X									-02
HP-31	Grab	GW		6/18/24	1048	3	X									-03
HP-29	Grab	GW		6/18/24	1205	3	X									-04
HP-30	Grab	GW		6/18/24	1603	3	X									-05
Trip Blank 01	Grab	—		6/17/24	—	2	X									-06
HP-28	Grab	GW		6/18/24	1627	3	X									-07

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7146 2380 2751

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	6/18/24	1715		2 06	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: EDAG 27+03-30 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/19/24 Time: 900	Hold: / Condition: NCF / OK

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☐ Samples Pre-Logged into eCOC

Cert. Needed: ☒ Yes ☐ No

Workorder: 60455196 **Workorder Name:** 1940108230 Whirlpool **Owner Received Date:** 6/19/2024 **Results Requested By:** 6/21/2024

Report To	Subcontract To
Nolie Wood Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1401	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Other						8260 Full list												LAB USE ONLY
1	HP-27	PS	6/17/2024 18:44	60455196001	Water	3						X												
2	Dup-01	PS	6/17/2024 18:47	60455196002	Water	3						X												
3	HP-31	PS	6/18/2024 10:48	60455196003	Water	3						X												
4	HP-29	PS	6/18/2024 12:05	60455196004	Water	3						X												
5	HP-30	PS	6/18/2024 16:03	60455196005	Water	3						X												
6	Trip Blank	PS	6/17/2024 00:00	60455196006	Water	2						X												
7	HP-28	PS	6/18/2024 16:27	60455196007	Water	3						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Comments

Cooler Temperature on Receipt _____°C **Custody Seal Y or N** **Received on Ice Y or N** **Samples Intact Y or N**

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 24, 2024

David Meyer
Ramboll US Consulting, Inc.
82 Corporate Woods
Overland Park, KS 66210

RE: Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Dear David Meyer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Matthew Barley, Ramboll
Kristen Drucquer, Ramboll US Consulting, Inc.
Jackie Zellmer, Ramboll

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CERTIFICATIONS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60455280001	**Trip Blank-02**	Water	06/19/24 00:00	06/20/24 09:00
60455280002	**HP-40**	Water	06/19/24 12:45	06/20/24 09:00
60455280003	**HP-38**	Water	06/19/24 14:28	06/20/24 09:00
60455280004	**HP-39**	Water	06/19/24 16:46	06/20/24 09:00
60455280005	**Dup-02**	Water	06/19/24 16:48	06/20/24 09:00

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SAMPLE ANALYTE COUNT

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60455280001	**Trip Blank-02**	EPA 8260D	JHH	68	PAN
60455280002	**HP-40**	EPA 8260D	JHH	68	PAN
60455280003	**HP-38**	EPA 8260D	JHH	68	PAN
60455280004	**HP-39**	EPA 8260D	JHH	68	PAN
60455280005	**Dup-02**	EPA 8260D	JHH	68	PAN

PAN = Pace National - Mt. Juliet

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 24, 2024

General Information:
5 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 2310682

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: R4085570-1)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 2310682

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- Dup-02 (Lab ID: 60455280005)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 24, 2024

Analyte Comments:

QC Batch: 2310682

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-38 (Lab ID: 60455280003)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene
- HP-39 (Lab ID: 60455280004)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene
- HP-40 (Lab ID: 60455280002)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene
- Trip Blank-02 (Lab ID: 60455280001)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: Trip Blank-02 **Lab ID: 60455280001** Collected: 06/19/24 00:00 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/23/24 22:02	06/23/24 22:02	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/23/24 22:02	06/23/24 22:02	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/23/24 22:02	06/23/24 22:02	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/23/24 22:02	06/23/24 22:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/23/24 22:02	06/23/24 22:02	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/23/24 22:02	06/23/24 22:02	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/23/24 22:02	06/23/24 22:02	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/23/24 22:02	06/23/24 22:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/23/24 22:02	06/23/24 22:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/23/24 22:02	06/23/24 22:02	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/23/24 22:02	06/23/24 22:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/23/24 22:02	06/23/24 22:02	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/23/24 22:02	06/23/24 22:02	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/23/24 22:02	06/23/24 22:02	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/23/24 22:02	06/23/24 22:02	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/23/24 22:02	06/23/24 22:02	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/23/24 22:02	06/23/24 22:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/23/24 22:02	06/23/24 22:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/23/24 22:02	06/23/24 22:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/23/24 22:02	06/23/24 22:02	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/23/24 22:02	06/23/24 22:02	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/23/24 22:02	06/23/24 22:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/23/24 22:02	06/23/24 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/23/24 22:02	06/23/24 22:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/23/24 22:02	06/23/24 22:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/23/24 22:02	06/23/24 22:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/23/24 22:02	06/23/24 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/23/24 22:02	06/23/24 22:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/23/24 22:02	06/23/24 22:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/23/24 22:02	06/23/24 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/23/24 22:02	06/23/24 22:02	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/23/24 22:02	06/23/24 22:02	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/23/24 22:02	06/23/24 22:02	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/23/24 22:02	06/23/24 22:02	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/23/24 22:02	06/23/24 22:02	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/23/24 22:02	06/23/24 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/23/24 22:02	06/23/24 22:02	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/23/24 22:02	06/23/24 22:02	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/23/24 22:02	06/23/24 22:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/23/24 22:02	06/23/24 22:02	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/23/24 22:02	06/23/24 22:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/23/24 22:02	06/23/24 22:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/23/24 22:02	06/23/24 22:02	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/23/24 22:02	06/23/24 22:02	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/23/24 22:02	06/23/24 22:02	75-09-2	

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: Trip Blank-02 **Lab ID: 60455280001** Collected: 06/19/24 00:00 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/23/24 22:02	06/23/24 22:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/23/24 22:02	06/23/24 22:02	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/23/24 22:02	06/23/24 22:02	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/23/24 22:02	06/23/24 22:02	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/23/24 22:02	06/23/24 22:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/23/24 22:02	06/23/24 22:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/23/24 22:02	06/23/24 22:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/23/24 22:02	06/23/24 22:02	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/23/24 22:02	06/23/24 22:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/23/24 22:02	06/23/24 22:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/23/24 22:02	06/23/24 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/23/24 22:02	06/23/24 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/23/24 22:02	06/23/24 22:02	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/23/24 22:02	06/23/24 22:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/23/24 22:02	06/23/24 22:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/23/24 22:02	06/23/24 22:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/23/24 22:02	06/23/24 22:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/23/24 22:02	06/23/24 22:02	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/23/24 22:02	06/23/24 22:02	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/23/24 22:02	06/23/24 22:02	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%	80.0-120		1	06/23/24 22:02	06/23/24 22:02	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77.0-126		1	06/23/24 22:02	06/23/24 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	06/23/24 22:02	06/23/24 22:02	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-40 **Lab ID: 60455280002** Collected: 06/19/24 12:45 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/24/24 00:44	06/24/24 00:44	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/24/24 00:44	06/24/24 00:44	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/24/24 00:44	06/24/24 00:44	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/24/24 00:44	06/24/24 00:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/24/24 00:44	06/24/24 00:44	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/24/24 00:44	06/24/24 00:44	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/24/24 00:44	06/24/24 00:44	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/24/24 00:44	06/24/24 00:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/24/24 00:44	06/24/24 00:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/24/24 00:44	06/24/24 00:44	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/24/24 00:44	06/24/24 00:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/24/24 00:44	06/24/24 00:44	56-23-5	
Chlorobenzene	**0.357J**	ug/L	1.00	0.116	1	06/24/24 00:44	06/24/24 00:44	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/24/24 00:44	06/24/24 00:44	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/24/24 00:44	06/24/24 00:44	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/24/24 00:44	06/24/24 00:44	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/24/24 00:44	06/24/24 00:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/24/24 00:44	06/24/24 00:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/24/24 00:44	06/24/24 00:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/24/24 00:44	06/24/24 00:44	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/24/24 00:44	06/24/24 00:44	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/24/24 00:44	06/24/24 00:44	74-95-3	
1,2-Dichlorobenzene	**0.296J**	ug/L	1.00	0.107	1	06/24/24 00:44	06/24/24 00:44	95-50-1	J
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/24/24 00:44	06/24/24 00:44	541-73-1	
1,4-Dichlorobenzene	**0.121J**	ug/L	1.00	0.120	1	06/24/24 00:44	06/24/24 00:44	106-46-7	J
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/24/24 00:44	06/24/24 00:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/24/24 00:44	06/24/24 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/24/24 00:44	06/24/24 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/24/24 00:44	06/24/24 00:44	75-35-4	
cis-1,2-Dichloroethene	**4.22**	ug/L	1.00	0.126	1	06/24/24 00:44	06/24/24 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/24/24 00:44	06/24/24 00:44	156-60-5	
1,2-Dichloroethene (Total)	**4.22**	ug/L	1.00	0.656	1	06/24/24 00:44	06/24/24 00:44	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/24/24 00:44	06/24/24 00:44	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/24/24 00:44	06/24/24 00:44	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/24/24 00:44	06/24/24 00:44	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/24/24 00:44	06/24/24 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/24/24 00:44	06/24/24 00:44	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/24/24 00:44	06/24/24 00:44	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/24/24 00:44	06/24/24 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/24/24 00:44	06/24/24 00:44	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/24/24 00:44	06/24/24 00:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/24/24 00:44	06/24/24 00:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/24/24 00:44	06/24/24 00:44	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/24/24 00:44	06/24/24 00:44	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/24/24 00:44	06/24/24 00:44	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-40 **Lab ID: 60455280002** Collected: 06/19/24 12:45 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/24/24 00:44	06/24/24 00:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/24/24 00:44	06/24/24 00:44	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/24/24 00:44	06/24/24 00:44	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/24/24 00:44	06/24/24 00:44	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/24/24 00:44	06/24/24 00:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/24/24 00:44	06/24/24 00:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/24/24 00:44	06/24/24 00:44	79-34-5	
Tetrachloroethene	**0.751J**	ug/L	1.00	0.300	1	06/24/24 00:44	06/24/24 00:44	127-18-4	J
Toluene	ND	ug/L	1.00	0.278	1	06/24/24 00:44	06/24/24 00:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/24/24 00:44	06/24/24 00:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/24/24 00:44	06/24/24 00:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/24/24 00:44	06/24/24 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/24/24 00:44	06/24/24 00:44	79-00-5	
Trichloroethene	**28.5**	ug/L	1.00	0.190	1	06/24/24 00:44	06/24/24 00:44	79-01-6	
Trichlorofluoromethane	**1.33J**	ug/L	5.00	0.160	1	06/24/24 00:44	06/24/24 00:44	75-69-4	J
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/24/24 00:44	06/24/24 00:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/24/24 00:44	06/24/24 00:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/24/24 00:44	06/24/24 00:44	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/24/24 00:44	06/24/24 00:44	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/24/24 00:44	06/24/24 00:44	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%	80.0-120		1	06/24/24 00:44	06/24/24 00:44	2037-26-5	
4-Bromofluorobenzene (S)	106	%	77.0-126		1	06/24/24 00:44	06/24/24 00:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130		1	06/24/24 00:44	06/24/24 00:44	17060-07-0	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-38 **Lab ID: 60455280003** Collected: 06/19/24 14:28 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/24/24 01:05	06/24/24 01:05	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/24/24 01:05	06/24/24 01:05	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/24/24 01:05	06/24/24 01:05	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/24/24 01:05	06/24/24 01:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/24/24 01:05	06/24/24 01:05	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/24/24 01:05	06/24/24 01:05	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/24/24 01:05	06/24/24 01:05	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/24/24 01:05	06/24/24 01:05	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/24/24 01:05	06/24/24 01:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/24/24 01:05	06/24/24 01:05	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/24/24 01:05	06/24/24 01:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/24/24 01:05	06/24/24 01:05	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/24/24 01:05	06/24/24 01:05	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/24/24 01:05	06/24/24 01:05	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/24/24 01:05	06/24/24 01:05	75-00-3	
Chloroform	**0.222J**	ug/L	5.00	0.111	1	06/24/24 01:05	06/24/24 01:05	67-66-3	J
Chloromethane	ND	ug/L	2.50	0.960	1	06/24/24 01:05	06/24/24 01:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/24/24 01:05	06/24/24 01:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/24/24 01:05	06/24/24 01:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/24/24 01:05	06/24/24 01:05	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/24/24 01:05	06/24/24 01:05	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/24/24 01:05	06/24/24 01:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/24/24 01:05	06/24/24 01:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/24/24 01:05	06/24/24 01:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/24/24 01:05	06/24/24 01:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/24/24 01:05	06/24/24 01:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/24/24 01:05	06/24/24 01:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/24/24 01:05	06/24/24 01:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/24/24 01:05	06/24/24 01:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/24/24 01:05	06/24/24 01:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/24/24 01:05	06/24/24 01:05	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/24/24 01:05	06/24/24 01:05	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/24/24 01:05	06/24/24 01:05	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/24/24 01:05	06/24/24 01:05	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/24/24 01:05	06/24/24 01:05	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/24/24 01:05	06/24/24 01:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/24/24 01:05	06/24/24 01:05	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/24/24 01:05	06/24/24 01:05	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/24/24 01:05	06/24/24 01:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/24/24 01:05	06/24/24 01:05	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/24/24 01:05	06/24/24 01:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/24/24 01:05	06/24/24 01:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/24/24 01:05	06/24/24 01:05	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/24/24 01:05	06/24/24 01:05	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/24/24 01:05	06/24/24 01:05	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-38 **Lab ID: 60455280003** Collected: 06/19/24 14:28 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/24/24 01:05	06/24/24 01:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/24/24 01:05	06/24/24 01:05	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/24/24 01:05	06/24/24 01:05	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/24/24 01:05	06/24/24 01:05	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/24/24 01:05	06/24/24 01:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/24/24 01:05	06/24/24 01:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/24/24 01:05	06/24/24 01:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/24/24 01:05	06/24/24 01:05	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/24/24 01:05	06/24/24 01:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/24/24 01:05	06/24/24 01:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/24/24 01:05	06/24/24 01:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/24/24 01:05	06/24/24 01:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/24/24 01:05	06/24/24 01:05	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/24/24 01:05	06/24/24 01:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/24/24 01:05	06/24/24 01:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/24/24 01:05	06/24/24 01:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/24/24 01:05	06/24/24 01:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/24/24 01:05	06/24/24 01:05	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/24/24 01:05	06/24/24 01:05	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/24/24 01:05	06/24/24 01:05	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%	80.0-120		1	06/24/24 01:05	06/24/24 01:05	2037-26-5	
4-Bromofluorobenzene (S)	106	%	77.0-126		1	06/24/24 01:05	06/24/24 01:05	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	06/24/24 01:05	06/24/24 01:05	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-39 **Lab ID: 60455280004** Collected: 06/19/24 16:46 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/24/24 01:25	06/24/24 01:25	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/24/24 01:25	06/24/24 01:25	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/24/24 01:25	06/24/24 01:25	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/24/24 01:25	06/24/24 01:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/24/24 01:25	06/24/24 01:25	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/24/24 01:25	06/24/24 01:25	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/24/24 01:25	06/24/24 01:25	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/24/24 01:25	06/24/24 01:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/24/24 01:25	06/24/24 01:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/24/24 01:25	06/24/24 01:25	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/24/24 01:25	06/24/24 01:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/24/24 01:25	06/24/24 01:25	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/24/24 01:25	06/24/24 01:25	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/24/24 01:25	06/24/24 01:25	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/24/24 01:25	06/24/24 01:25	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/24/24 01:25	06/24/24 01:25	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/24/24 01:25	06/24/24 01:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/24/24 01:25	06/24/24 01:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/24/24 01:25	06/24/24 01:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/24/24 01:25	06/24/24 01:25	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/24/24 01:25	06/24/24 01:25	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/24/24 01:25	06/24/24 01:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/24/24 01:25	06/24/24 01:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/24/24 01:25	06/24/24 01:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/24/24 01:25	06/24/24 01:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/24/24 01:25	06/24/24 01:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/24/24 01:25	06/24/24 01:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/24/24 01:25	06/24/24 01:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/24/24 01:25	06/24/24 01:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/24/24 01:25	06/24/24 01:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/24/24 01:25	06/24/24 01:25	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/24/24 01:25	06/24/24 01:25	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/24/24 01:25	06/24/24 01:25	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/24/24 01:25	06/24/24 01:25	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/24/24 01:25	06/24/24 01:25	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/24/24 01:25	06/24/24 01:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/24/24 01:25	06/24/24 01:25	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/24/24 01:25	06/24/24 01:25	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/24/24 01:25	06/24/24 01:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/24/24 01:25	06/24/24 01:25	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/24/24 01:25	06/24/24 01:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/24/24 01:25	06/24/24 01:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/24/24 01:25	06/24/24 01:25	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/24/24 01:25	06/24/24 01:25	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/24/24 01:25	06/24/24 01:25	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: HP-39 **Lab ID: 60455280004** Collected: 06/19/24 16:46 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/24/24 01:25	06/24/24 01:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/24/24 01:25	06/24/24 01:25	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/24/24 01:25	06/24/24 01:25	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/24/24 01:25	06/24/24 01:25	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/24/24 01:25	06/24/24 01:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/24/24 01:25	06/24/24 01:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/24/24 01:25	06/24/24 01:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/24/24 01:25	06/24/24 01:25	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/24/24 01:25	06/24/24 01:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/24/24 01:25	06/24/24 01:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/24/24 01:25	06/24/24 01:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/24/24 01:25	06/24/24 01:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/24/24 01:25	06/24/24 01:25	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/24/24 01:25	06/24/24 01:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/24/24 01:25	06/24/24 01:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/24/24 01:25	06/24/24 01:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/24/24 01:25	06/24/24 01:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/24/24 01:25	06/24/24 01:25	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/24/24 01:25	06/24/24 01:25	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/24/24 01:25	06/24/24 01:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	112	%	80.0-120		1	06/24/24 01:25	06/24/24 01:25	2037-26-5	
4-Bromofluorobenzene (S)	106	%	77.0-126		1	06/24/24 01:25	06/24/24 01:25	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1	06/24/24 01:25	06/24/24 01:25	17060-07-0	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: Dup-02 **Lab ID: 60455280005** Collected: 06/19/24 16:48 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/24/24 01:46	06/24/24 01:46	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/24/24 01:46	06/24/24 01:46	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/24/24 01:46	06/24/24 01:46	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/24/24 01:46	06/24/24 01:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/24/24 01:46	06/24/24 01:46	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/24/24 01:46	06/24/24 01:46	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/24/24 01:46	06/24/24 01:46	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/24/24 01:46	06/24/24 01:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/24/24 01:46	06/24/24 01:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/24/24 01:46	06/24/24 01:46	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/24/24 01:46	06/24/24 01:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/24/24 01:46	06/24/24 01:46	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/24/24 01:46	06/24/24 01:46	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/24/24 01:46	06/24/24 01:46	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/24/24 01:46	06/24/24 01:46	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/24/24 01:46	06/24/24 01:46	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/24/24 01:46	06/24/24 01:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/24/24 01:46	06/24/24 01:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/24/24 01:46	06/24/24 01:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/24/24 01:46	06/24/24 01:46	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/24/24 01:46	06/24/24 01:46	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/24/24 01:46	06/24/24 01:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/24/24 01:46	06/24/24 01:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/24/24 01:46	06/24/24 01:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/24/24 01:46	06/24/24 01:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/24/24 01:46	06/24/24 01:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/24/24 01:46	06/24/24 01:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/24/24 01:46	06/24/24 01:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/24/24 01:46	06/24/24 01:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/24/24 01:46	06/24/24 01:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/24/24 01:46	06/24/24 01:46	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/24/24 01:46	06/24/24 01:46	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/24/24 01:46	06/24/24 01:46	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/24/24 01:46	06/24/24 01:46	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/24/24 01:46	06/24/24 01:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/24/24 01:46	06/24/24 01:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/24/24 01:46	06/24/24 01:46	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/24/24 01:46	06/24/24 01:46	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/24/24 01:46	06/24/24 01:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/24/24 01:46	06/24/24 01:46	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/24/24 01:46	06/24/24 01:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/24/24 01:46	06/24/24 01:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/24/24 01:46	06/24/24 01:46	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/24/24 01:46	06/24/24 01:46	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/24/24 01:46	06/24/24 01:46	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Sample: Dup-02 **Lab ID: 60455280005** Collected: 06/19/24 16:48 Received: 06/20/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/24/24 01:46	06/24/24 01:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/24/24 01:46	06/24/24 01:46	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/24/24 01:46	06/24/24 01:46	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/24/24 01:46	06/24/24 01:46	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/24/24 01:46	06/24/24 01:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/24/24 01:46	06/24/24 01:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/24/24 01:46	06/24/24 01:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/24/24 01:46	06/24/24 01:46	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/24/24 01:46	06/24/24 01:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/24/24 01:46	06/24/24 01:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/24/24 01:46	06/24/24 01:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/24/24 01:46	06/24/24 01:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/24/24 01:46	06/24/24 01:46	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/24/24 01:46	06/24/24 01:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/24/24 01:46	06/24/24 01:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/24/24 01:46	06/24/24 01:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/24/24 01:46	06/24/24 01:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/24/24 01:46	06/24/24 01:46	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/24/24 01:46	06/24/24 01:46	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/24/24 01:46	06/24/24 01:46	1330-20-7	
Surrogates									
Toluene-d8 (S)	112	%	80.0-120		1	06/24/24 01:46	06/24/24 01:46	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77.0-126		1	06/24/24 01:46	06/24/24 01:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	06/24/24 01:46	06/24/24 01:46	17060-07-0	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

QC Batch: 2310682
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455280001, 60455280002, 60455280003, 60455280004, 60455280005

METHOD BLANK: R4085570-2 Matrix: Water
Associated Lab Samples: 60455280001, 60455280002, 60455280003, 60455280004, 60455280005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/23/24 19:48	
Benzene	ug/L	ND	1.00	0.0941	06/23/24 19:48	
Bromobenzene	ug/L	ND	1.00	0.118	06/23/24 19:48	
Bromochloromethane	ug/L	ND	1.00	0.128	06/23/24 19:48	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/23/24 19:48	
Bromoform	ug/L	ND	1.00	0.129	06/23/24 19:48	
Bromomethane	ug/L	ND	5.00	0.605	06/23/24 19:48	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/23/24 19:48	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/23/24 19:48	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/23/24 19:48	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/23/24 19:48	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/23/24 19:48	
Chlorobenzene	ug/L	ND	1.00	0.116	06/23/24 19:48	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/23/24 19:48	
Chloroethane	ug/L	ND	5.00	0.192	06/23/24 19:48	
Chloroform	ug/L	ND	5.00	0.111	06/23/24 19:48	
Chloromethane	ug/L	ND	2.50	0.960	06/23/24 19:48	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/23/24 19:48	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/23/24 19:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/23/24 19:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/23/24 19:48	
Dibromomethane	ug/L	ND	1.00	0.122	06/23/24 19:48	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/23/24 19:48	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/23/24 19:48	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/23/24 19:48	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/23/24 19:48	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/23/24 19:48	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/23/24 19:48	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/23/24 19:48	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/23/24 19:48	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/23/24 19:48	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/23/24 19:48	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/23/24 19:48	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/23/24 19:48	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/23/24 19:48	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/23/24 19:48	
Ethylbenzene	ug/L	ND	1.00	0.137	06/23/24 19:48	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/23/24 19:48	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

METHOD BLANK: R4085570-2 Matrix: Water
Associated Lab Samples: 60455280001, 60455280002, 60455280003, 60455280004, 60455280005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/23/24 19:48	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/23/24 19:48	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/23/24 19:48	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/23/24 19:48	
Methylene Chloride	ug/L	ND	5.00	0.430	06/23/24 19:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/23/24 19:48	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/23/24 19:48	
Naphthalene	ug/L	ND	5.00	1.00	06/23/24 19:48	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/23/24 19:48	
Styrene	ug/L	ND	1.00	0.118	06/23/24 19:48	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/23/24 19:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/23/24 19:48	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/23/24 19:48	
Toluene	ug/L	ND	1.00	0.278	06/23/24 19:48	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/23/24 19:48	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/23/24 19:48	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/23/24 19:48	
Trichloroethene	ug/L	ND	1.00	0.190	06/23/24 19:48	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/23/24 19:48	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/23/24 19:48	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/23/24 19:48	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/23/24 19:48	
Vinyl chloride	ug/L	ND	1.00	0.234	06/23/24 19:48	
Xylene (Total)	ug/L	ND	3.00	0.174	06/23/24 19:48	
Toluene-d8 (S)	%	114	80.0-120		06/23/24 19:48	
4-Bromofluorobenzene (S)	%	107	77.0-126		06/23/24 19:48	
1,2-Dichloroethane-d4 (S)	%	105	70.0-130		06/23/24 19:48	

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	41.9J	168	19.0-160	J,L0
Benzene	ug/L	5.00	4.89	97.8	70.0-123	
Bromobenzene	ug/L	5.00	4.85	97.0	73.0-121	
Bromochloromethane	ug/L	5.00	5.61	112	76.0-122	
Bromodichloromethane	ug/L	5.00	4.76	95.2	75.0-120	
Bromoform	ug/L	5.00	4.36	87.2	68.0-132	
Bromomethane	ug/L	5.00	1.94J	38.8	10.0-160	J
n-Butylbenzene	ug/L	5.00	4.67	93.4	73.0-125	
sec-Butylbenzene	ug/L	5.00	4.97	99.4	75.0-125	
tert-Butylbenzene	ug/L	5.00	4.63	92.6	76.0-124	
Carbon disulfide	ug/L	5.00	4.76	95.2	61.0-128	
Carbon tetrachloride	ug/L	5.00	4.82	96.4	68.0-126	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	5.00	4.83	96.6	80.0-121	
Dibromochloromethane	ug/L	5.00	4.57	91.4	77.0-125	
Chloroethane	ug/L	5.00	6.07	121	47.0-150	
Chloroform	ug/L	5.00	4.84J	96.8	73.0-120	J
Chloromethane	ug/L	5.00	5.12	102	41.0-142	
2-Chlorotoluene	ug/L	5.00	4.96	99.2	76.0-123	
4-Chlorotoluene	ug/L	5.00	4.75	95.0	75.0-122	
1,2-Dibromo-3-chloropropane	ug/L	5.00	3.87J	77.4	58.0-134	J
1,2-Dibromoethane (EDB)	ug/L	5.00	4.86	97.2	80.0-122	
Dibromomethane	ug/L	5.00	4.93	98.6	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	5.00	100	79.0-121	
1,3-Dichlorobenzene	ug/L	5.00	4.69	93.8	79.0-120	
1,4-Dichlorobenzene	ug/L	5.00	4.86	97.2	79.0-120	
Dichlorodifluoromethane	ug/L	5.00	6.56	131	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.18	104	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.03	101	70.0-128	
1,1-Dichloroethene	ug/L	5.00	4.83	96.6	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	4.69	93.8	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	4.96	99.2	73.0-120	
1,2-Dichloroethene (Total)	ug/L	10.0	9.65	96.5	70.0-130	
1,2-Dichloropropane	ug/L	5.00	5.05	101	77.0-125	
1,1-Dichloropropene	ug/L	5.00	5.09	102	74.0-126	
1,3-Dichloropropane	ug/L	5.00	4.96	99.2	80.0-120	
cis-1,3-Dichloropropene	ug/L	5.00	4.69	93.8	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.64	92.8	78.0-124	
2,2-Dichloropropane	ug/L	5.00	4.54	90.8	58.0-130	
Ethylbenzene	ug/L	5.00	4.76	95.2	79.0-123	
Hexachloro-1,3-butadiene	ug/L	5.00	5.04	101	54.0-138	
2-Hexanone	ug/L	25.0	25.7	103	67.0-149	
Isopropylbenzene (Cumene)	ug/L	5.00	4.71	94.2	76.0-127	
p-Isopropyltoluene	ug/L	5.00	4.80	96.0	76.0-125	
2-Butanone (MEK)	ug/L	25.0	30.0	120	44.0-160	
Methylene Chloride	ug/L	5.00	4.86J	97.2	67.0-120	J
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	26.6	106	68.0-142	
Methyl-tert-butyl ether	ug/L	5.00	4.83	96.6	68.0-125	
Naphthalene	ug/L	5.00	3.66J	73.2	54.0-135	J
n-Propylbenzene	ug/L	5.00	4.80	96.0	77.0-124	
Styrene	ug/L	5.00	4.60	92.0	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.70	94.0	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.91	98.2	65.0-130	
Tetrachloroethene	ug/L	5.00	5.07	101	72.0-132	
Toluene	ug/L	5.00	4.94	98.8	79.0-120	
1,2,3-Trichlorobenzene	ug/L	5.00	5.03	101	50.0-138	
1,2,4-Trichlorobenzene	ug/L	5.00	4.57	91.4	57.0-137	
1,1,1-Trichloroethane	ug/L	5.00	4.91	98.2	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	5.06	101	80.0-120	
Trichloroethene	ug/L	5.00	5.08	102	78.0-124	

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REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.69	114	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.15	103	73.0-130	
1,2,4-Trimethylbenzene	ug/L	5.00	4.60	92.0	76.0-121	
1,3,5-Trimethylbenzene	ug/L	5.00	4.84	96.8	76.0-122	
Vinyl chloride	ug/L	5.00	5.63	113	67.0-131	
Xylene (Total)	ug/L	15.0	14.0	93.3	79.0-123	
Toluene-d8 (S)	%			108	80.0-120	
4-Bromofluorobenzene (S)	%			102	77.0-126	
1,2-Dichloroethane-d4 (S)	%			106	70.0-130	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940108230 Whirlpool
Pace Project No.: 60455280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60455280001	**Trip Blank-02**	8260D	2310682	EPA 8260D	2310682
60455280002	**HP-40**	8260D	2310682	EPA 8260D	2310682
60455280003	**HP-38**	8260D	2310682	EPA 8260D	2310682
60455280004	**HP-39**	8260D	2310682	EPA 8260D	2310682
60455280005	**Dup-02**	8260D	2310682	EPA 8260D	2310682

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Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort Smith AR

Phone: 7205198975
Fax:

Client Project # 194101R230

Lab Project #

Collected by (print): Lillian Stejskal

Site/Facility ID # Whirlpool

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Date Results Needed: 3 day TAT

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260
TripBlank-02	—	—		6/19/24	—	2	X
HP-40	Grab	GW		6/19/24	1295	3	X
HP-38	Grab	GW		6/19/24	1428	3	X
HP-39	Grab	GW		6/19/24	1646	3	X
Dup-02	Grab	GW		6/17/24	1648	3	X

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L [illegible]

Tab D061

Acctnum: **PACELKS**

Template:

Prelogin:

TSR: **Nolie Wood/McLain**

PB:

Shipped Via:

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 714623802821

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature] / Ramboll	6/19/24	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Deyang

Trip Blank Received: (Yes) / No
2 HCL / MeoH TBR

Temp: EM 7°C Bottles Received:
3.2+0.3=3.5 12

Date: 6-20-24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 26, 2024

David Meyer
Ramboll US Consulting, Inc.
82 Corporate Woods
Overland Park, KS 66210

RE: Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Dear David Meyer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Matthew Barley, Ramboll
Kristen Drucquer, Ramboll US Consulting, Inc.
Jackie Zellmer, Ramboll

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CERTIFICATIONS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60455437001	**Trip Blank-03**	Water	06/20/24 00:00	06/21/24 09:00
60455437002	**HP-41**	Water	06/20/24 09:40	06/21/24 09:00
60455437003	**HP-32**	Water	06/20/24 13:08	06/21/24 09:00
60455437004	**HP-35**	Water	06/20/24 15:22	06/21/24 09:00
60455437005	**DUP-03**	Water	06/20/24 15:24	06/21/24 09:00
60455437006	**HP-36**	Water	06/20/24 16:14	06/21/24 09:00
60455437007	**HP-37**	Water	06/20/24 16:24	06/21/24 09:00

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SAMPLE ANALYTE COUNT

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60455437001	**Trip Blank-03**	EPA 8260D	JHH	68	PAN
60455437002	**HP-41**	EPA 8260D	DWR, JHH	68	PAN
60455437003	**HP-32**	EPA 8260D	DWR	68	PAN
60455437004	**HP-35**	EPA 8260D	DWR	68	PAN
60455437005	**DUP-03**	EPA 8260D	DWR	68	PAN
60455437006	**HP-36**	EPA 8260D	DWR	68	PAN
60455437007	**HP-37**	EPA 8260D	DWR	68	PAN

PAN = Pace National - Mt. Juliet

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 26, 2024

General Information:
7 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 2310682

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: R4085570-1)
  - Acetone

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 2310682

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-41 (Lab ID: 60455437002)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 26, 2024

Analyte Comments:

QC Batch: 2310682

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- Trip Blank-03 (Lab ID: 60455437001)
  - 1,2-Dibromo-3-chloropropane
  - Bromomethane
  - Naphthalene

QC Batch: 2311671

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- DUP-03 (Lab ID: 60455437005)
  - Bromomethane
- HP-32 (Lab ID: 60455437003)
  - Bromomethane
- HP-35 (Lab ID: 60455437004)
  - Bromomethane
- HP-36 (Lab ID: 60455437006)
  - Bromomethane
- HP-37 (Lab ID: 60455437007)
  - Bromomethane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: Trip Blank-03 **Lab ID: 60455437001** Collected: 06/20/24 00:00 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/23/24 22:22	06/23/24 22:22	67-64-1	L0
Benzene	ND	ug/L	1.00	0.0941	1	06/23/24 22:22	06/23/24 22:22	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/23/24 22:22	06/23/24 22:22	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/23/24 22:22	06/23/24 22:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/23/24 22:22	06/23/24 22:22	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/23/24 22:22	06/23/24 22:22	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/23/24 22:22	06/23/24 22:22	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/23/24 22:22	06/23/24 22:22	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/23/24 22:22	06/23/24 22:22	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/23/24 22:22	06/23/24 22:22	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/23/24 22:22	06/23/24 22:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/23/24 22:22	06/23/24 22:22	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/23/24 22:22	06/23/24 22:22	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/23/24 22:22	06/23/24 22:22	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/23/24 22:22	06/23/24 22:22	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/23/24 22:22	06/23/24 22:22	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/23/24 22:22	06/23/24 22:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/23/24 22:22	06/23/24 22:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/23/24 22:22	06/23/24 22:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/23/24 22:22	06/23/24 22:22	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/23/24 22:22	06/23/24 22:22	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/23/24 22:22	06/23/24 22:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/23/24 22:22	06/23/24 22:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/23/24 22:22	06/23/24 22:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/23/24 22:22	06/23/24 22:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/23/24 22:22	06/23/24 22:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/23/24 22:22	06/23/24 22:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/23/24 22:22	06/23/24 22:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/23/24 22:22	06/23/24 22:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/23/24 22:22	06/23/24 22:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/23/24 22:22	06/23/24 22:22	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/23/24 22:22	06/23/24 22:22	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/23/24 22:22	06/23/24 22:22	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/23/24 22:22	06/23/24 22:22	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/23/24 22:22	06/23/24 22:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/23/24 22:22	06/23/24 22:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/23/24 22:22	06/23/24 22:22	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/23/24 22:22	06/23/24 22:22	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/23/24 22:22	06/23/24 22:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/23/24 22:22	06/23/24 22:22	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/23/24 22:22	06/23/24 22:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/23/24 22:22	06/23/24 22:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/23/24 22:22	06/23/24 22:22	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/23/24 22:22	06/23/24 22:22	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/23/24 22:22	06/23/24 22:22	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: Trip Blank-03 **Lab ID: 60455437001** Collected: 06/20/24 00:00 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/23/24 22:22	06/23/24 22:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/23/24 22:22	06/23/24 22:22	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/23/24 22:22	06/23/24 22:22	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/23/24 22:22	06/23/24 22:22	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/23/24 22:22	06/23/24 22:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/23/24 22:22	06/23/24 22:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/23/24 22:22	06/23/24 22:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/23/24 22:22	06/23/24 22:22	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/23/24 22:22	06/23/24 22:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/23/24 22:22	06/23/24 22:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/23/24 22:22	06/23/24 22:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/23/24 22:22	06/23/24 22:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/23/24 22:22	06/23/24 22:22	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/23/24 22:22	06/23/24 22:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/23/24 22:22	06/23/24 22:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/23/24 22:22	06/23/24 22:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/23/24 22:22	06/23/24 22:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/23/24 22:22	06/23/24 22:22	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/23/24 22:22	06/23/24 22:22	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/23/24 22:22	06/23/24 22:22	1330-20-7	
Surrogates									
Toluene-d8 (S)	113	%	80.0-120		1	06/23/24 22:22	06/23/24 22:22	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77.0-126		1	06/23/24 22:22	06/23/24 22:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130		1	06/23/24 22:22	06/23/24 22:22	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-41 **Lab ID: 60455437002** Collected: 06/20/24 09:40 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**16.7J**	ug/L	50.0	11.3	1	06/24/24 04:08	06/24/24 04:08	67-64-1	J,L0
Benzene	**0.0947J**	ug/L	1.00	0.0941	1	06/24/24 04:08	06/24/24 04:08	71-43-2	J
Bromobenzene	ND	ug/L	1.00	0.118	1	06/24/24 04:08	06/24/24 04:08	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/24/24 04:08	06/24/24 04:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/24/24 04:08	06/24/24 04:08	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/24/24 04:08	06/24/24 04:08	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/24/24 04:08	06/24/24 04:08	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/24/24 04:08	06/24/24 04:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/24/24 04:08	06/24/24 04:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/24/24 04:08	06/24/24 04:08	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/24/24 04:08	06/24/24 04:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/24/24 04:08	06/24/24 04:08	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/24/24 04:08	06/24/24 04:08	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/24/24 04:08	06/24/24 04:08	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/24/24 04:08	06/24/24 04:08	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/24/24 04:08	06/24/24 04:08	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/24/24 04:08	06/24/24 04:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/24/24 04:08	06/24/24 04:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/24/24 04:08	06/24/24 04:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/24/24 04:08	06/24/24 04:08	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/24/24 04:08	06/24/24 04:08	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/24/24 04:08	06/24/24 04:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/24/24 04:08	06/24/24 04:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/24/24 04:08	06/24/24 04:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/24/24 04:08	06/24/24 04:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/24/24 04:08	06/24/24 04:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/24/24 04:08	06/24/24 04:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/24/24 04:08	06/24/24 04:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/24/24 04:08	06/24/24 04:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/24/24 04:08	06/24/24 04:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/24/24 04:08	06/24/24 04:08	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/24/24 04:08	06/24/24 04:08	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/24/24 04:08	06/24/24 04:08	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/24/24 04:08	06/24/24 04:08	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/24/24 04:08	06/24/24 04:08	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/24/24 04:08	06/24/24 04:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/24/24 04:08	06/24/24 04:08	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/24/24 04:08	06/24/24 04:08	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/24/24 04:08	06/24/24 04:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/24/24 04:08	06/24/24 04:08	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/24/24 04:08	06/24/24 04:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/24/24 04:08	06/24/24 04:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/24/24 04:08	06/24/24 04:08	99-87-6	
2-Butanone (MEK)	**2.04J**	ug/L	10.0	1.19	1	06/24/24 04:08	06/24/24 04:08	78-93-3	J
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/24/24 04:08	06/24/24 04:08	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-41 **Lab ID: 60455437002** Collected: 06/20/24 09:40 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/24/24 04:08	06/24/24 04:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/24/24 17:22	06/24/24 17:22	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/24/24 04:08	06/24/24 04:08	91-20-3	C3
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/24/24 04:08	06/24/24 04:08	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/24/24 04:08	06/24/24 04:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/24/24 04:08	06/24/24 04:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/24/24 04:08	06/24/24 04:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/24/24 04:08	06/24/24 04:08	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/24/24 04:08	06/24/24 04:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/24/24 04:08	06/24/24 04:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/24/24 04:08	06/24/24 04:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/24/24 04:08	06/24/24 04:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/24/24 04:08	06/24/24 04:08	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/24/24 04:08	06/24/24 04:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/24/24 04:08	06/24/24 04:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/24/24 04:08	06/24/24 04:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/24/24 04:08	06/24/24 04:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/24/24 04:08	06/24/24 04:08	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/24/24 04:08	06/24/24 04:08	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/24/24 04:08	06/24/24 04:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	112	%	80.0-120		1	06/24/24 04:08	06/24/24 04:08	2037-26-5	
Toluene-d8 (S)	101	%	80.0-120		1	06/24/24 17:22	06/24/24 17:22	2037-26-5	
4-Bromofluorobenzene (S)	106	%	77.0-126		1	06/24/24 04:08	06/24/24 04:08	460-00-4	
4-Bromofluorobenzene (S)	98.9	%	77.0-126		1	06/24/24 17:22	06/24/24 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1	06/24/24 04:08	06/24/24 04:08	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		1	06/24/24 17:22	06/24/24 17:22	17060-07-0	

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-32 **Lab ID: 60455437003** Collected: 06/20/24 13:08 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/25/24 14:29	06/25/24 14:29	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/25/24 14:29	06/25/24 14:29	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 14:29	06/25/24 14:29	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 14:29	06/25/24 14:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 14:29	06/25/24 14:29	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 14:29	06/25/24 14:29	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 14:29	06/25/24 14:29	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 14:29	06/25/24 14:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 14:29	06/25/24 14:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 14:29	06/25/24 14:29	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/25/24 14:29	06/25/24 14:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 14:29	06/25/24 14:29	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 14:29	06/25/24 14:29	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 14:29	06/25/24 14:29	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 14:29	06/25/24 14:29	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 14:29	06/25/24 14:29	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 14:29	06/25/24 14:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 14:29	06/25/24 14:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 14:29	06/25/24 14:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 14:29	06/25/24 14:29	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 14:29	06/25/24 14:29	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 14:29	06/25/24 14:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 14:29	06/25/24 14:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 14:29	06/25/24 14:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 14:29	06/25/24 14:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 14:29	06/25/24 14:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 14:29	06/25/24 14:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 14:29	06/25/24 14:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 14:29	06/25/24 14:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/25/24 14:29	06/25/24 14:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 14:29	06/25/24 14:29	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 14:29	06/25/24 14:29	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 14:29	06/25/24 14:29	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 14:29	06/25/24 14:29	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 14:29	06/25/24 14:29	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 14:29	06/25/24 14:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 14:29	06/25/24 14:29	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 14:29	06/25/24 14:29	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 14:29	06/25/24 14:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 14:29	06/25/24 14:29	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 14:29	06/25/24 14:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 14:29	06/25/24 14:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 14:29	06/25/24 14:29	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/25/24 14:29	06/25/24 14:29	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 14:29	06/25/24 14:29	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-32 **Lab ID: 60455437003** Collected: 06/20/24 13:08 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 14:29	06/25/24 14:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/25/24 14:29	06/25/24 14:29	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 14:29	06/25/24 14:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 14:29	06/25/24 14:29	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 14:29	06/25/24 14:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 14:29	06/25/24 14:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 14:29	06/25/24 14:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 14:29	06/25/24 14:29	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/25/24 14:29	06/25/24 14:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 14:29	06/25/24 14:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 14:29	06/25/24 14:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 14:29	06/25/24 14:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 14:29	06/25/24 14:29	79-00-5	
Trichloroethene	**0.477J**	ug/L	1.00	0.190	1	06/25/24 14:29	06/25/24 14:29	79-01-6	J
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 14:29	06/25/24 14:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 14:29	06/25/24 14:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 14:29	06/25/24 14:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 14:29	06/25/24 14:29	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 14:29	06/25/24 14:29	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/25/24 14:29	06/25/24 14:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	108	%	80.0-120		1	06/25/24 14:29	06/25/24 14:29	2037-26-5	
4-Bromofluorobenzene (S)	108	%	77.0-126		1	06/25/24 14:29	06/25/24 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130		1	06/25/24 14:29	06/25/24 14:29	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-35 **Lab ID: 60455437004** Collected: 06/20/24 15:22 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/25/24 14:50	06/25/24 14:50	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/25/24 14:50	06/25/24 14:50	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 14:50	06/25/24 14:50	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 14:50	06/25/24 14:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 14:50	06/25/24 14:50	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 14:50	06/25/24 14:50	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 14:50	06/25/24 14:50	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 14:50	06/25/24 14:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 14:50	06/25/24 14:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 14:50	06/25/24 14:50	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/25/24 14:50	06/25/24 14:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 14:50	06/25/24 14:50	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 14:50	06/25/24 14:50	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 14:50	06/25/24 14:50	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 14:50	06/25/24 14:50	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 14:50	06/25/24 14:50	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 14:50	06/25/24 14:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 14:50	06/25/24 14:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 14:50	06/25/24 14:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 14:50	06/25/24 14:50	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 14:50	06/25/24 14:50	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 14:50	06/25/24 14:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 14:50	06/25/24 14:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 14:50	06/25/24 14:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 14:50	06/25/24 14:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 14:50	06/25/24 14:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 14:50	06/25/24 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 14:50	06/25/24 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 14:50	06/25/24 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/25/24 14:50	06/25/24 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 14:50	06/25/24 14:50	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 14:50	06/25/24 14:50	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 14:50	06/25/24 14:50	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 14:50	06/25/24 14:50	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 14:50	06/25/24 14:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 14:50	06/25/24 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 14:50	06/25/24 14:50	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 14:50	06/25/24 14:50	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 14:50	06/25/24 14:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 14:50	06/25/24 14:50	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 14:50	06/25/24 14:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 14:50	06/25/24 14:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 14:50	06/25/24 14:50	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/25/24 14:50	06/25/24 14:50	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 14:50	06/25/24 14:50	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-35 **Lab ID: 60455437004** Collected: 06/20/24 15:22 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 14:50	06/25/24 14:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/25/24 14:50	06/25/24 14:50	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 14:50	06/25/24 14:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 14:50	06/25/24 14:50	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 14:50	06/25/24 14:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 14:50	06/25/24 14:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 14:50	06/25/24 14:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 14:50	06/25/24 14:50	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/25/24 14:50	06/25/24 14:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 14:50	06/25/24 14:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 14:50	06/25/24 14:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 14:50	06/25/24 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 14:50	06/25/24 14:50	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/25/24 14:50	06/25/24 14:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 14:50	06/25/24 14:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 14:50	06/25/24 14:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 14:50	06/25/24 14:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 14:50	06/25/24 14:50	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 14:50	06/25/24 14:50	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/25/24 14:50	06/25/24 14:50	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80.0-120		1	06/25/24 14:50	06/25/24 14:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77.0-126		1	06/25/24 14:50	06/25/24 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70.0-130		1	06/25/24 14:50	06/25/24 14:50	17060-07-0	

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: DUP-03 **Lab ID: 60455437005** Collected: 06/20/24 15:24 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/25/24 15:11	06/25/24 15:11	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/25/24 15:11	06/25/24 15:11	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 15:11	06/25/24 15:11	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 15:11	06/25/24 15:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 15:11	06/25/24 15:11	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 15:11	06/25/24 15:11	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 15:11	06/25/24 15:11	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 15:11	06/25/24 15:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 15:11	06/25/24 15:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 15:11	06/25/24 15:11	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/25/24 15:11	06/25/24 15:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 15:11	06/25/24 15:11	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 15:11	06/25/24 15:11	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 15:11	06/25/24 15:11	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 15:11	06/25/24 15:11	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 15:11	06/25/24 15:11	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 15:11	06/25/24 15:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 15:11	06/25/24 15:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 15:11	06/25/24 15:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 15:11	06/25/24 15:11	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 15:11	06/25/24 15:11	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 15:11	06/25/24 15:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 15:11	06/25/24 15:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 15:11	06/25/24 15:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 15:11	06/25/24 15:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 15:11	06/25/24 15:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 15:11	06/25/24 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 15:11	06/25/24 15:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 15:11	06/25/24 15:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/25/24 15:11	06/25/24 15:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 15:11	06/25/24 15:11	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 15:11	06/25/24 15:11	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 15:11	06/25/24 15:11	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 15:11	06/25/24 15:11	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 15:11	06/25/24 15:11	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 15:11	06/25/24 15:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 15:11	06/25/24 15:11	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 15:11	06/25/24 15:11	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 15:11	06/25/24 15:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 15:11	06/25/24 15:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 15:11	06/25/24 15:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 15:11	06/25/24 15:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 15:11	06/25/24 15:11	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/25/24 15:11	06/25/24 15:11	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 15:11	06/25/24 15:11	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: DUP-03 **Lab ID: 60455437005** Collected: 06/20/24 15:24 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 15:11	06/25/24 15:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/25/24 15:11	06/25/24 15:11	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 15:11	06/25/24 15:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 15:11	06/25/24 15:11	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 15:11	06/25/24 15:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 15:11	06/25/24 15:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 15:11	06/25/24 15:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 15:11	06/25/24 15:11	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/25/24 15:11	06/25/24 15:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 15:11	06/25/24 15:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 15:11	06/25/24 15:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 15:11	06/25/24 15:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 15:11	06/25/24 15:11	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/25/24 15:11	06/25/24 15:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 15:11	06/25/24 15:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 15:11	06/25/24 15:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 15:11	06/25/24 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 15:11	06/25/24 15:11	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 15:11	06/25/24 15:11	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/25/24 15:11	06/25/24 15:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	80.0-120		1	06/25/24 15:11	06/25/24 15:11	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77.0-126		1	06/25/24 15:11	06/25/24 15:11	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70.0-130		1	06/25/24 15:11	06/25/24 15:11	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-36 **Lab ID: 60455437006** Collected: 06/20/24 16:14 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**23.9J**	ug/L	50.0	11.3	1	06/25/24 15:31	06/25/24 15:31	67-64-1	J
Benzene	**0.264J**	ug/L	1.00	0.0941	1	06/25/24 15:31	06/25/24 15:31	71-43-2	J
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 15:31	06/25/24 15:31	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 15:31	06/25/24 15:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 15:31	06/25/24 15:31	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 15:31	06/25/24 15:31	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 15:31	06/25/24 15:31	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 15:31	06/25/24 15:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 15:31	06/25/24 15:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 15:31	06/25/24 15:31	98-06-6	
Carbon disulfide	**0.110J**	ug/L	1.00	0.0962	1	06/25/24 15:31	06/25/24 15:31	75-15-0	J
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 15:31	06/25/24 15:31	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 15:31	06/25/24 15:31	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 15:31	06/25/24 15:31	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 15:31	06/25/24 15:31	75-00-3	
Chloroform	**0.758J**	ug/L	5.00	0.111	1	06/25/24 15:31	06/25/24 15:31	67-66-3	J
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 15:31	06/25/24 15:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 15:31	06/25/24 15:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 15:31	06/25/24 15:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 15:31	06/25/24 15:31	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 15:31	06/25/24 15:31	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 15:31	06/25/24 15:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 15:31	06/25/24 15:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 15:31	06/25/24 15:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 15:31	06/25/24 15:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 15:31	06/25/24 15:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 15:31	06/25/24 15:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 15:31	06/25/24 15:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 15:31	06/25/24 15:31	75-35-4	
cis-1,2-Dichloroethene	**1.68**	ug/L	1.00	0.126	1	06/25/24 15:31	06/25/24 15:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 15:31	06/25/24 15:31	156-60-5	
1,2-Dichloroethene (Total)	**1.68**	ug/L	1.00	0.656	1	06/25/24 15:31	06/25/24 15:31	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 15:31	06/25/24 15:31	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 15:31	06/25/24 15:31	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 15:31	06/25/24 15:31	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 15:31	06/25/24 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 15:31	06/25/24 15:31	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 15:31	06/25/24 15:31	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 15:31	06/25/24 15:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 15:31	06/25/24 15:31	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 15:31	06/25/24 15:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 15:31	06/25/24 15:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 15:31	06/25/24 15:31	99-87-6	
2-Butanone (MEK)	**3.03J**	ug/L	10.0	1.19	1	06/25/24 15:31	06/25/24 15:31	78-93-3	J
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 15:31	06/25/24 15:31	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-36 **Lab ID: 60455437006** Collected: 06/20/24 16:14 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	**0.715J**	ug/L	10.0	0.478	1	06/25/24 15:31	06/25/24 15:31	108-10-1	J
Methyl-tert-butyl ether	**48.8**	ug/L	1.00	0.101	1	06/25/24 15:31	06/25/24 15:31	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 15:31	06/25/24 15:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 15:31	06/25/24 15:31	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 15:31	06/25/24 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 15:31	06/25/24 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 15:31	06/25/24 15:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 15:31	06/25/24 15:31	127-18-4	
Toluene	**0.281J**	ug/L	1.00	0.278	1	06/25/24 15:31	06/25/24 15:31	108-88-3	J
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 15:31	06/25/24 15:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 15:31	06/25/24 15:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 15:31	06/25/24 15:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 15:31	06/25/24 15:31	79-00-5	
Trichloroethene	**6.59**	ug/L	1.00	0.190	1	06/25/24 15:31	06/25/24 15:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 15:31	06/25/24 15:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 15:31	06/25/24 15:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 15:31	06/25/24 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 15:31	06/25/24 15:31	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 15:31	06/25/24 15:31	75-01-4	
Xylene (Total)	**0.534J**	ug/L	3.00	0.174	1	06/25/24 15:31	06/25/24 15:31	1330-20-7	J
Surrogates									
Toluene-d8 (S)	110	%	80.0-120		1	06/25/24 15:31	06/25/24 15:31	2037-26-5	
4-Bromofluorobenzene (S)	111	%	77.0-126		1	06/25/24 15:31	06/25/24 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70.0-130		1	06/25/24 15:31	06/25/24 15:31	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-37 **Lab ID: 60455437007** Collected: 06/20/24 16:24 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**24.2J**	ug/L	50.0	11.3	1	06/25/24 15:52	06/25/24 15:52	67-64-1	J
Benzene	**0.226J**	ug/L	1.00	0.0941	1	06/25/24 15:52	06/25/24 15:52	71-43-2	J
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 15:52	06/25/24 15:52	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 15:52	06/25/24 15:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 15:52	06/25/24 15:52	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 15:52	06/25/24 15:52	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 15:52	06/25/24 15:52	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 15:52	06/25/24 15:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 15:52	06/25/24 15:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 15:52	06/25/24 15:52	98-06-6	
Carbon disulfide	**0.179J**	ug/L	1.00	0.0962	1	06/25/24 15:52	06/25/24 15:52	75-15-0	J
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 15:52	06/25/24 15:52	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 15:52	06/25/24 15:52	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 15:52	06/25/24 15:52	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 15:52	06/25/24 15:52	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 15:52	06/25/24 15:52	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 15:52	06/25/24 15:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 15:52	06/25/24 15:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 15:52	06/25/24 15:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 15:52	06/25/24 15:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 15:52	06/25/24 15:52	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 15:52	06/25/24 15:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 15:52	06/25/24 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 15:52	06/25/24 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 15:52	06/25/24 15:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 15:52	06/25/24 15:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 15:52	06/25/24 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 15:52	06/25/24 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 15:52	06/25/24 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/25/24 15:52	06/25/24 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 15:52	06/25/24 15:52	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 15:52	06/25/24 15:52	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 15:52	06/25/24 15:52	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 15:52	06/25/24 15:52	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 15:52	06/25/24 15:52	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 15:52	06/25/24 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 15:52	06/25/24 15:52	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 15:52	06/25/24 15:52	594-20-7	
Ethylbenzene	**0.286J**	ug/L	1.00	0.137	1	06/25/24 15:52	06/25/24 15:52	100-41-4	J
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 15:52	06/25/24 15:52	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 15:52	06/25/24 15:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 15:52	06/25/24 15:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 15:52	06/25/24 15:52	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/25/24 15:52	06/25/24 15:52	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 15:52	06/25/24 15:52	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Sample: HP-37 **Lab ID: 60455437007** Collected: 06/20/24 16:24 Received: 06/21/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 15:52	06/25/24 15:52	108-10-1	
Methyl-tert-butyl ether	**0.388J**	ug/L	1.00	0.101	1	06/25/24 15:52	06/25/24 15:52	1634-04-4	J
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 15:52	06/25/24 15:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 15:52	06/25/24 15:52	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 15:52	06/25/24 15:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 15:52	06/25/24 15:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 15:52	06/25/24 15:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 15:52	06/25/24 15:52	127-18-4	
Toluene	**0.346J**	ug/L	1.00	0.278	1	06/25/24 15:52	06/25/24 15:52	108-88-3	J
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 15:52	06/25/24 15:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 15:52	06/25/24 15:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 15:52	06/25/24 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 15:52	06/25/24 15:52	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/25/24 15:52	06/25/24 15:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 15:52	06/25/24 15:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 15:52	06/25/24 15:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 15:52	06/25/24 15:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 15:52	06/25/24 15:52	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 15:52	06/25/24 15:52	75-01-4	
Xylene (Total)	**2.14J**	ug/L	3.00	0.174	1	06/25/24 15:52	06/25/24 15:52	1330-20-7	J
Surrogates									
Toluene-d8 (S)	106	%	80.0-120		1	06/25/24 15:52	06/25/24 15:52	2037-26-5	
4-Bromofluorobenzene (S)	106	%	77.0-126		1	06/25/24 15:52	06/25/24 15:52	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70.0-130		1	06/25/24 15:52	06/25/24 15:52	17060-07-0	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

QC Batch: 2310682
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455437001, 60455437002

METHOD BLANK: R4085570-2 Matrix: Water
Associated Lab Samples: 60455437001, 60455437002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/23/24 19:48	
Benzene	ug/L	ND	1.00	0.0941	06/23/24 19:48	
Bromobenzene	ug/L	ND	1.00	0.118	06/23/24 19:48	
Bromochloromethane	ug/L	ND	1.00	0.128	06/23/24 19:48	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/23/24 19:48	
Bromoform	ug/L	ND	1.00	0.129	06/23/24 19:48	
Bromomethane	ug/L	ND	5.00	0.605	06/23/24 19:48	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/23/24 19:48	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/23/24 19:48	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/23/24 19:48	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/23/24 19:48	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/23/24 19:48	
Chlorobenzene	ug/L	ND	1.00	0.116	06/23/24 19:48	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/23/24 19:48	
Chloroethane	ug/L	ND	5.00	0.192	06/23/24 19:48	
Chloroform	ug/L	ND	5.00	0.111	06/23/24 19:48	
Chloromethane	ug/L	ND	2.50	0.960	06/23/24 19:48	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/23/24 19:48	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/23/24 19:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/23/24 19:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/23/24 19:48	
Dibromomethane	ug/L	ND	1.00	0.122	06/23/24 19:48	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/23/24 19:48	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/23/24 19:48	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/23/24 19:48	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/23/24 19:48	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/23/24 19:48	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/23/24 19:48	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/23/24 19:48	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/23/24 19:48	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/23/24 19:48	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/23/24 19:48	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/23/24 19:48	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/23/24 19:48	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/23/24 19:48	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/23/24 19:48	
Ethylbenzene	ug/L	ND	1.00	0.137	06/23/24 19:48	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/23/24 19:48	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

METHOD BLANK: R4085570-2 Matrix: Water
Associated Lab Samples: 60455437001, 60455437002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/23/24 19:48	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/23/24 19:48	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/23/24 19:48	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/23/24 19:48	
Methylene Chloride	ug/L	ND	5.00	0.430	06/23/24 19:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/23/24 19:48	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/23/24 19:48	
Naphthalene	ug/L	ND	5.00	1.00	06/23/24 19:48	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/23/24 19:48	
Styrene	ug/L	ND	1.00	0.118	06/23/24 19:48	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/23/24 19:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/23/24 19:48	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/23/24 19:48	
Toluene	ug/L	ND	1.00	0.278	06/23/24 19:48	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/23/24 19:48	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/23/24 19:48	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/23/24 19:48	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/23/24 19:48	
Trichloroethene	ug/L	ND	1.00	0.190	06/23/24 19:48	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/23/24 19:48	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/23/24 19:48	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/23/24 19:48	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/23/24 19:48	
Vinyl chloride	ug/L	ND	1.00	0.234	06/23/24 19:48	
Xylene (Total)	ug/L	ND	3.00	0.174	06/23/24 19:48	
Toluene-d8 (S)	%	114	80.0-120		06/23/24 19:48	
4-Bromofluorobenzene (S)	%	107	77.0-126		06/23/24 19:48	
1,2-Dichloroethane-d4 (S)	%	105	70.0-130		06/23/24 19:48	

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	41.9J	168	19.0-160	J,L0
Benzene	ug/L	5.00	4.89	97.8	70.0-123	
Bromobenzene	ug/L	5.00	4.85	97.0	73.0-121	
Bromochloromethane	ug/L	5.00	5.61	112	76.0-122	
Bromodichloromethane	ug/L	5.00	4.76	95.2	75.0-120	
Bromoform	ug/L	5.00	4.36	87.2	68.0-132	
Bromomethane	ug/L	5.00	1.94J	38.8	10.0-160	J
n-Butylbenzene	ug/L	5.00	4.67	93.4	73.0-125	
sec-Butylbenzene	ug/L	5.00	4.97	99.4	75.0-125	
tert-Butylbenzene	ug/L	5.00	4.63	92.6	76.0-124	
Carbon disulfide	ug/L	5.00	4.76	95.2	61.0-128	
Carbon tetrachloride	ug/L	5.00	4.82	96.4	68.0-126	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	5.00	4.83	96.6	80.0-121	
Dibromochloromethane	ug/L	5.00	4.57	91.4	77.0-125	
Chloroethane	ug/L	5.00	6.07	121	47.0-150	
Chloroform	ug/L	5.00	4.84J	96.8	73.0-120	J
Chloromethane	ug/L	5.00	5.12	102	41.0-142	
2-Chlorotoluene	ug/L	5.00	4.96	99.2	76.0-123	
4-Chlorotoluene	ug/L	5.00	4.75	95.0	75.0-122	
1,2-Dibromo-3-chloropropane	ug/L	5.00	3.87J	77.4	58.0-134	J
1,2-Dibromoethane (EDB)	ug/L	5.00	4.86	97.2	80.0-122	
Dibromomethane	ug/L	5.00	4.93	98.6	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	5.00	100	79.0-121	
1,3-Dichlorobenzene	ug/L	5.00	4.69	93.8	79.0-120	
1,4-Dichlorobenzene	ug/L	5.00	4.86	97.2	79.0-120	
Dichlorodifluoromethane	ug/L	5.00	6.56	131	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.18	104	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.03	101	70.0-128	
1,1-Dichloroethene	ug/L	5.00	4.83	96.6	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	4.69	93.8	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	4.96	99.2	73.0-120	
1,2-Dichloroethene (Total)	ug/L	10.0	9.65	96.5	70.0-130	
1,2-Dichloropropane	ug/L	5.00	5.05	101	77.0-125	
1,1-Dichloropropene	ug/L	5.00	5.09	102	74.0-126	
1,3-Dichloropropane	ug/L	5.00	4.96	99.2	80.0-120	
cis-1,3-Dichloropropene	ug/L	5.00	4.69	93.8	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.64	92.8	78.0-124	
2,2-Dichloropropane	ug/L	5.00	4.54	90.8	58.0-130	
Ethylbenzene	ug/L	5.00	4.76	95.2	79.0-123	
Hexachloro-1,3-butadiene	ug/L	5.00	5.04	101	54.0-138	
2-Hexanone	ug/L	25.0	25.7	103	67.0-149	
Isopropylbenzene (Cumene)	ug/L	5.00	4.71	94.2	76.0-127	
p-Isopropyltoluene	ug/L	5.00	4.80	96.0	76.0-125	
2-Butanone (MEK)	ug/L	25.0	30.0	120	44.0-160	
Methylene Chloride	ug/L	5.00	4.86J	97.2	67.0-120	J
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	26.6	106	68.0-142	
Methyl-tert-butyl ether	ug/L	5.00	4.83	96.6	68.0-125	
Naphthalene	ug/L	5.00	3.66J	73.2	54.0-135	J
n-Propylbenzene	ug/L	5.00	4.80	96.0	77.0-124	
Styrene	ug/L	5.00	4.60	92.0	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.70	94.0	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.91	98.2	65.0-130	
Tetrachloroethene	ug/L	5.00	5.07	101	72.0-132	
Toluene	ug/L	5.00	4.94	98.8	79.0-120	
1,2,3-Trichlorobenzene	ug/L	5.00	5.03	101	50.0-138	
1,2,4-Trichlorobenzene	ug/L	5.00	4.57	91.4	57.0-137	
1,1,1-Trichloroethane	ug/L	5.00	4.91	98.2	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	5.06	101	80.0-120	
Trichloroethene	ug/L	5.00	5.08	102	78.0-124	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

LABORATORY CONTROL SAMPLE: R4085570-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.69	114	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.15	103	73.0-130	
1,2,4-Trimethylbenzene	ug/L	5.00	4.60	92.0	76.0-121	
1,3,5-Trimethylbenzene	ug/L	5.00	4.84	96.8	76.0-122	
Vinyl chloride	ug/L	5.00	5.63	113	67.0-131	
Xylene (Total)	ug/L	15.0	14.0	93.3	79.0-123	
Toluene-d8 (S)	%			108	80.0-120	
4-Bromofluorobenzene (S)	%			102	77.0-126	
1,2-Dichloroethane-d4 (S)	%			106	70.0-130	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

QC Batch: 2311012
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60455437002

METHOD BLANK: R4086027-3 Matrix: Water

Associated Lab Samples: 60455437002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/24/24 09:00	
Toluene-d8 (S)	%	98.6	80.0-120		06/24/24 09:00	
4-Bromofluorobenzene (S)	%	92.8	77.0-126		06/24/24 09:00	
1,2-Dichloroethane-d4 (S)	%	110	70.0-130		06/24/24 09:00	

LABORATORY CONTROL SAMPLE & LCSD: R4086027-1 R4086027-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/L	5.00	5.12	4.95	102	99.0	68.0-125	3.38	20	
Toluene-d8 (S)	%				99.7	99.2	80.0-120			
4-Bromofluorobenzene (S)	%				97.9	97.4	77.0-126			
1,2-Dichloroethane-d4 (S)	%				109	110	70.0-130			

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

QC Batch: 2311671
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455437003, 60455437004, 60455437005, 60455437006, 60455437007

METHOD BLANK: R4086306-3 Matrix: Water
Associated Lab Samples: 60455437003, 60455437004, 60455437005, 60455437006, 60455437007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/25/24 12:08	
Benzene	ug/L	ND	1.00	0.0941	06/25/24 12:08	
Bromobenzene	ug/L	ND	1.00	0.118	06/25/24 12:08	
Bromochloromethane	ug/L	ND	1.00	0.128	06/25/24 12:08	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/25/24 12:08	
Bromoform	ug/L	ND	1.00	0.129	06/25/24 12:08	
Bromomethane	ug/L	ND	5.00	0.605	06/25/24 12:08	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/25/24 12:08	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/25/24 12:08	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/25/24 12:08	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/25/24 12:08	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/25/24 12:08	
Chlorobenzene	ug/L	ND	1.00	0.116	06/25/24 12:08	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/25/24 12:08	
Chloroethane	ug/L	ND	5.00	0.192	06/25/24 12:08	
Chloroform	ug/L	ND	5.00	0.111	06/25/24 12:08	
Chloromethane	ug/L	ND	2.50	0.960	06/25/24 12:08	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/25/24 12:08	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/25/24 12:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/25/24 12:08	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/25/24 12:08	
Dibromomethane	ug/L	ND	1.00	0.122	06/25/24 12:08	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/25/24 12:08	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/25/24 12:08	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/25/24 12:08	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/25/24 12:08	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/25/24 12:08	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/25/24 12:08	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/25/24 12:08	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/25/24 12:08	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/25/24 12:08	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/25/24 12:08	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/25/24 12:08	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/25/24 12:08	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/25/24 12:08	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/25/24 12:08	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/25/24 12:08	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/25/24 12:08	
Ethylbenzene	ug/L	ND	1.00	0.137	06/25/24 12:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/25/24 12:08	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

METHOD BLANK: R4086306-3 Matrix: Water
Associated Lab Samples: 60455437003, 60455437004, 60455437005, 60455437006, 60455437007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/25/24 12:08	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/25/24 12:08	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/25/24 12:08	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/25/24 12:08	
Methylene Chloride	ug/L	ND	5.00	0.430	06/25/24 12:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/25/24 12:08	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/25/24 12:08	
Naphthalene	ug/L	ND	5.00	1.00	06/25/24 12:08	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/25/24 12:08	
Styrene	ug/L	ND	1.00	0.118	06/25/24 12:08	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/25/24 12:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/25/24 12:08	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/25/24 12:08	
Toluene	ug/L	ND	1.00	0.278	06/25/24 12:08	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/25/24 12:08	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/25/24 12:08	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/25/24 12:08	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/25/24 12:08	
Trichloroethene	ug/L	ND	1.00	0.190	06/25/24 12:08	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/25/24 12:08	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/25/24 12:08	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/25/24 12:08	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/25/24 12:08	
Vinyl chloride	ug/L	ND	1.00	0.234	06/25/24 12:08	
Xylene (Total)	ug/L	ND	3.00	0.174	06/25/24 12:08	
Toluene-d8 (S)	%	106	80.0-120		06/25/24 12:08	
4-Bromofluorobenzene (S)	%	104	77.0-126		06/25/24 12:08	
1,2-Dichloroethane-d4 (S)	%	113	70.0-130		06/25/24 12:08	

LABORATORY CONTROL SAMPLE: R4086306-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	27.1J	108	19.0-160	J
Benzene	ug/L	5.00	4.66	93.2	70.0-123	
Bromobenzene	ug/L	5.00	4.57	91.4	73.0-121	
Bromochloromethane	ug/L	5.00	5.16	103	76.0-122	
Bromodichloromethane	ug/L	5.00	5.48	110	75.0-120	
Bromoform	ug/L	5.00	5.67	113	68.0-132	
Bromomethane	ug/L	5.00	2.72J	54.4	10.0-160	J
n-Butylbenzene	ug/L	5.00	4.66	93.2	73.0-125	
sec-Butylbenzene	ug/L	5.00	5.10	102	75.0-125	
tert-Butylbenzene	ug/L	5.00	5.11	102	76.0-124	
Carbon disulfide	ug/L	5.00	4.42	88.4	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.45	109	68.0-126	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

LABORATORY CONTROL SAMPLE: R4086306-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	5.00	5.04	101	80.0-121	
Dibromochloromethane	ug/L	5.00	5.24	105	77.0-125	
Chloroethane	ug/L	5.00	3.99J	79.8	47.0-150	J
Chloroform	ug/L	5.00	5.23	105	73.0-120	
Chloromethane	ug/L	5.00	5.26	105	41.0-142	
2-Chlorotoluene	ug/L	5.00	4.97	99.4	76.0-123	
4-Chlorotoluene	ug/L	5.00	4.98	99.6	75.0-122	
1,2-Dibromo-3-chloropropane	ug/L	5.00	5.08	102	58.0-134	
1,2-Dibromoethane (EDB)	ug/L	5.00	5.36	107	80.0-122	
Dibromomethane	ug/L	5.00	4.96	99.2	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	4.94	98.8	79.0-121	
1,3-Dichlorobenzene	ug/L	5.00	4.94	98.8	79.0-120	
1,4-Dichlorobenzene	ug/L	5.00	4.92	98.4	79.0-120	
Dichlorodifluoromethane	ug/L	5.00	6.81	136	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.09	102	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.10	102	70.0-128	
1,1-Dichloroethene	ug/L	5.00	4.80	96.0	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	4.75	95.0	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.02	100	73.0-120	
1,2-Dichloroethene (Total)	ug/L	10.0	9.77	97.7	70.0-130	
1,2-Dichloropropane	ug/L	5.00	5.11	102	77.0-125	
1,1-Dichloropropene	ug/L	5.00	5.41	108	74.0-126	
1,3-Dichloropropane	ug/L	5.00	5.04	101	80.0-120	
cis-1,3-Dichloropropene	ug/L	5.00	4.88	97.6	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	5.22	104	78.0-124	
2,2-Dichloropropane	ug/L	5.00	5.18	104	58.0-130	
Ethylbenzene	ug/L	5.00	4.94	98.8	79.0-123	
Hexachloro-1,3-butadiene	ug/L	5.00	5.37	107	54.0-138	
2-Hexanone	ug/L	25.0	27.8	111	67.0-149	
Isopropylbenzene (Cumene)	ug/L	5.00	5.09	102	76.0-127	
p-Isopropyltoluene	ug/L	5.00	4.94	98.8	76.0-125	
2-Butanone (MEK)	ug/L	25.0	25.0	100	44.0-160	
Methylene Chloride	ug/L	5.00	5.08	102	67.0-120	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	28.6	114	68.0-142	
Methyl-tert-butyl ether	ug/L	5.00	5.04	101	68.0-125	
Naphthalene	ug/L	5.00	4.70J	94.0	54.0-135	J
n-Propylbenzene	ug/L	5.00	4.82	96.4	77.0-124	
Styrene	ug/L	5.00	4.91	98.2	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	5.49	110	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.86	97.2	65.0-130	
Tetrachloroethene	ug/L	5.00	5.85	117	72.0-132	
Toluene	ug/L	5.00	4.96	99.2	79.0-120	
1,2,3-Trichlorobenzene	ug/L	5.00	5.41	108	50.0-138	
1,2,4-Trichlorobenzene	ug/L	5.00	5.15	103	57.0-137	
1,1,1-Trichloroethane	ug/L	5.00	5.44	109	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	5.18	104	80.0-120	
Trichloroethene	ug/L	5.00	5.54	111	78.0-124	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

LABORATORY CONTROL SAMPLE: R4086306-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.90	118	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.18	104	73.0-130	
1,2,4-Trimethylbenzene	ug/L	5.00	4.92	98.4	76.0-121	
1,3,5-Trimethylbenzene	ug/L	5.00	4.80	96.0	76.0-122	
Vinyl chloride	ug/L	5.00	4.43	88.6	67.0-131	
Xylene (Total)	ug/L	15.0	15.1	101	79.0-123	
Toluene-d8 (S)	%			108	80.0-120	
4-Bromofluorobenzene (S)	%			108	77.0-126	
1,2-Dichloroethane-d4 (S)	%			117	70.0-130	

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QUALIFIERS

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940108230 Whirlpool
Pace Project No.: 60455437

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60455437001	**Trip Blank-03**	8260D	2310682	EPA 8260D	2310682
60455437002	**HP-41**	8260D	2310682	EPA 8260D	2310682
60455437002	**HP-41**	8260D	2311012	EPA 8260D	2311012
60455437003	**HP-32**	8260D	2311671	EPA 8260D	2311671
60455437004	**HP-35**	8260D	2311671	EPA 8260D	2311671
60455437005	**DUP-03**	8260D	2311671	EPA 8260D	2311671
60455437006	**HP-36**	8260D	2311671	EPA 8260D	2311671
60455437007	**HP-37**	8260D	2311671	EPA 8260D	2311671

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Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort Smith AR

Phone: 7205198975
Fax:

Client Project # 194010823o

Lab Project #

L# LL749214

K113

Collected by (print): Lillian Stojs

Site/Facility ID #

P.O. #

Acctnum: **PACELKS**

Template:

Prelogin:

TSR: **Nolie Wood/McLain**

PB:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Date Results Needed: 3 day TAT

Quote #

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260	Remarks	Sample # (lab only)
Trip Blank-03	—	—		6/20/24	—	2	X		-01
HP-41	Grab	GW		6/20/24	0940	3	X		-02
HP-32	Grab	GW		6/20/24	1308	3	X		-03
HP-35	Grab	GW		6/20/24	1522	3	X		-04
Dup-03	Grab	GW		6/20/24	1524	3	X		-05
HP-36	Grab	GW		6/20/24	1614	3	X		-06
HP-37	Grab	GW		6/20/24	1624	3	X		-07

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7146 2380 2762

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X __N
Bottles arrive intact: X __N
Correct bottles used: X __N
Sufficient volume sent: X __N
If Applicable
VOA Zero Headspace: X __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Ramboll	6/20/24	1720		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 °C 3.3 3.5 Bottles Received: 17
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/21/24 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort Smith AR

Phone: 7205198975
Fax:

Client Project # 194010823o

Lab Project #

L# L749214

K113

Collected by (print): Lillian Stojs

Site/Facility ID #

P.O. #

Acctnum: **PACELKS**

Template:

Prelogin:

TSR: **Nolie Wood/McLain**

PB:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed: 3 day TAT

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260	Remarks	Sample # (lab only)
Trip Blank-03	—	—		6/20/24	—	2	X		-01
HP-41	Grab	GW		6/20/24	0940	3	X		-02
HP-32	Grab	GW		6/20/24	1308	3	X		-03
HP-35	Grab	GW		6/20/24	1522	3	X		-04
Dup-03	Grab	GW		6/20/24	1524	3	X		-05
HP-36	Grab	GW		6/20/24	1614	3	X		-06
HP-37	Grab	GW		6/20/24	1624	3	X		-07

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7146 2380 2762

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X __Y __N
Bottles arrive intact: X __Y __N
Correct bottles used: X __Y __N
Sufficient volume sent: X __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Ramboll	6/20/24	1720		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.2 °C 3.3 3.5 Bottles Received: 17
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/21/24 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☐ Samples Pre-Logged into eCOC

State: AR

Cert. Needed: ☒ Yes ☐ No

Workorder: 60455437 **Workorder Name:** 1940103230 **Owner Received Date:** 6/21/2024 **Results Requested By:** 7/8/2024

Report To	Subcontract To
Nolie Wood Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1401	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL						8260 - Full List												LAB USE ONLY
1	Trip Blank-03	PS	6/20/2024 00:00	60455437001	Water	2						X												
2	HP-41	PS	6/20/2024 09:40	60455437002	Water	3						X												
3	HP-32	PS	6/20/2024 13:08	60455437003	Water	3						X												
4	HP-35	PS	6/20/2024 15:22	60455437004	Water	3						X												
5	DUP-03	PS	6/20/2024 15:24	60455437005	Water	3						X												
6	HP-36	PS	6/20/2024 16:14	60455437006	Water	3						X												
7	HP-37	PS	6/20/2024 16:24	60455437007	Water	2						X												

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Cooler Temperature on Receipt _____°C **Custody Seal Y or N** **Received on Ice Y or N** **Samples Intact Y or N**

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 27, 2024

David Meyer
Ramboll US Consulting, Inc.
82 Corporate Woods
Overland Park, KS 66210

RE: Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Dear David Meyer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Matthew Barley, Ramboll
Kristen Drucquer, Ramboll US Consulting, Inc.
Jackie Zellmer, Ramboll

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CERTIFICATIONS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60455438001	**HP-33**	Water	06/21/24 08:23	06/22/24 09:00
60455438002	**HP-34**	Water	06/21/24 09:33	06/22/24 09:00
60455438003	**Trip Blank-04**	Water	06/21/24 09:00	06/22/24 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60455438001	**HP-33**	EPA 8260D	ACG, DYW	68	PAN
60455438002	**HP-34**	EPA 8260D	ACG, DYW	68	PAN
60455438003	**Trip Blank-04**	EPA 8260D	DYW	68	PAN

PAN = Pace National - Mt. Juliet

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Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Date: June 27, 2024

HP-34 (Lab ID: 60455438002)

- Volatile Organic Compounds (GC/MS) by Method 8260D - Elevated RL due to sediment in sample vial.

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PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 27, 2024

General Information:
3 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 2311747

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-33 (Lab ID: 60455438001)
  - Bromomethane
  - Vinyl chloride
- HP-34 (Lab ID: 60455438002)
  - Bromomethane
  - Vinyl chloride
- Trip Blank-04 (Lab ID: 60455438003)
  - Bromomethane
  - Vinyl chloride

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(913)599-5665

PROJECT NARRATIVE

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: June 27, 2024

This data package has been reviewed for quality and completeness and is approved for release.

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: HP-33 **Lab ID: 60455438001** Collected: 06/21/24 08:23 Received: 06/22/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	**68.6**	ug/L	50.0	11.3	1	06/27/24 00:52	06/27/24 00:52	67-64-1	
Benzene	**0.172J**	ug/L	1.00	0.0941	1	06/25/24 14:43	06/25/24 14:43	71-43-2	J
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 14:43	06/25/24 14:43	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 14:43	06/25/24 14:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 14:43	06/25/24 14:43	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 14:43	06/25/24 14:43	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 14:43	06/25/24 14:43	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 14:43	06/25/24 14:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 14:43	06/25/24 14:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 14:43	06/25/24 14:43	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/25/24 14:43	06/25/24 14:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 14:43	06/25/24 14:43	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 14:43	06/25/24 14:43	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 14:43	06/25/24 14:43	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 14:43	06/25/24 14:43	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 14:43	06/25/24 14:43	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 14:43	06/25/24 14:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 14:43	06/25/24 14:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 14:43	06/25/24 14:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 14:43	06/25/24 14:43	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 14:43	06/25/24 14:43	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 14:43	06/25/24 14:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 14:43	06/25/24 14:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 14:43	06/25/24 14:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 14:43	06/25/24 14:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 14:43	06/25/24 14:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 14:43	06/25/24 14:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 14:43	06/25/24 14:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 14:43	06/25/24 14:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/27/24 00:52	06/27/24 00:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 14:43	06/25/24 14:43	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 14:43	06/25/24 14:43	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 14:43	06/25/24 14:43	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 14:43	06/25/24 14:43	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 14:43	06/25/24 14:43	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 14:43	06/25/24 14:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 14:43	06/25/24 14:43	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 14:43	06/25/24 14:43	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 14:43	06/25/24 14:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 14:43	06/25/24 14:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 14:43	06/25/24 14:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 14:43	06/25/24 14:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 14:43	06/25/24 14:43	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/27/24 00:52	06/27/24 00:52	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 14:43	06/25/24 14:43	75-09-2	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: HP-33 **Lab ID: 60455438001** Collected: 06/21/24 08:23 Received: 06/22/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 14:43	06/25/24 14:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/25/24 14:43	06/25/24 14:43	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 14:43	06/25/24 14:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 14:43	06/25/24 14:43	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 14:43	06/25/24 14:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 14:43	06/25/24 14:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 14:43	06/25/24 14:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 14:43	06/25/24 14:43	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/25/24 14:43	06/25/24 14:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 14:43	06/25/24 14:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 14:43	06/25/24 14:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 14:43	06/25/24 14:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 14:43	06/25/24 14:43	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/25/24 14:43	06/25/24 14:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 14:43	06/25/24 14:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 14:43	06/25/24 14:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 14:43	06/25/24 14:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 14:43	06/25/24 14:43	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 14:43	06/25/24 14:43	75-01-4	C3
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/25/24 14:43	06/25/24 14:43	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80.0-120		1	06/25/24 14:43	06/25/24 14:43	2037-26-5	
Toluene-d8 (S)	109	%	80.0-120		1	06/27/24 00:52	06/27/24 00:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	77.0-126		1	06/25/24 14:43	06/25/24 14:43	460-00-4	
4-Bromofluorobenzene (S)	94.9	%	77.0-126		1	06/27/24 00:52	06/27/24 00:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130		1	06/25/24 14:43	06/25/24 14:43	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130		1	06/27/24 00:52	06/27/24 00:52	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: HP-34 **Lab ID: 60455438002** Collected: 06/21/24 09:33 Received: 06/22/24 09:00 Matrix: Water

Comments: • Volatile Organic Compounds (GC/MS) by Method 8260D - Elevated RL due to sediment in sample vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	100	22.6	2	06/25/24 15:02	06/25/24 15:02	67-64-1	
Benzene	ND	ug/L	2.00	0.188	2	06/25/24 15:02	06/25/24 15:02	71-43-2	
Bromobenzene	ND	ug/L	2.00	0.236	2	06/25/24 15:02	06/25/24 15:02	108-86-1	
Bromochloromethane	ND	ug/L	2.00	0.256	2	06/25/24 15:02	06/25/24 15:02	74-97-5	
Bromodichloromethane	ND	ug/L	2.00	0.272	2	06/25/24 15:02	06/25/24 15:02	75-27-4	
Bromoform	ND	ug/L	2.00	0.258	2	06/25/24 15:02	06/25/24 15:02	75-25-2	
Bromomethane	ND	ug/L	10.0	1.21	2	06/25/24 15:02	06/25/24 15:02	74-83-9	C3
n-Butylbenzene	ND	ug/L	2.00	0.314	2	06/25/24 15:02	06/25/24 15:02	104-51-8	
sec-Butylbenzene	ND	ug/L	2.00	0.250	2	06/25/24 15:02	06/25/24 15:02	135-98-8	
tert-Butylbenzene	ND	ug/L	2.00	0.254	2	06/25/24 15:02	06/25/24 15:02	98-06-6	
Carbon disulfide	ND	ug/L	2.00	0.192	2	06/25/24 15:02	06/25/24 15:02	75-15-0	
Carbon tetrachloride	ND	ug/L	2.00	0.256	2	06/25/24 15:02	06/25/24 15:02	56-23-5	
Chlorobenzene	ND	ug/L	2.00	0.232	2	06/25/24 15:02	06/25/24 15:02	108-90-7	
Dibromochloromethane	ND	ug/L	2.00	0.280	2	06/25/24 15:02	06/25/24 15:02	124-48-1	
Chloroethane	ND	ug/L	10.0	0.384	2	06/25/24 15:02	06/25/24 15:02	75-00-3	
Chloroform	ND	ug/L	10.0	0.222	2	06/25/24 15:02	06/25/24 15:02	67-66-3	
Chloromethane	ND	ug/L	5.00	1.92	2	06/25/24 15:02	06/25/24 15:02	74-87-3	
2-Chlorotoluene	ND	ug/L	2.00	0.212	2	06/25/24 15:02	06/25/24 15:02	95-49-8	
4-Chlorotoluene	ND	ug/L	2.00	0.228	2	06/25/24 15:02	06/25/24 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	0.552	2	06/25/24 15:02	06/25/24 15:02	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	2.00	0.252	2	06/25/24 15:02	06/25/24 15:02	106-93-4	
Dibromomethane	ND	ug/L	2.00	0.244	2	06/25/24 15:02	06/25/24 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.00	0.214	2	06/25/24 15:02	06/25/24 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.00	0.220	2	06/25/24 15:02	06/25/24 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.00	0.240	2	06/25/24 15:02	06/25/24 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	0.748	2	06/25/24 15:02	06/25/24 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.00	0.200	2	06/25/24 15:02	06/25/24 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.00	0.164	2	06/25/24 15:02	06/25/24 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.00	0.376	2	06/25/24 15:02	06/25/24 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.00	0.252	2	06/27/24 01:30	06/27/24 01:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.00	0.298	2	06/25/24 15:02	06/25/24 15:02	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	2.00	1.31	2	06/25/24 15:02	06/25/24 15:02	540-59-0	
1,2-Dichloropropane	ND	ug/L	2.00	0.298	2	06/25/24 15:02	06/25/24 15:02	78-87-5	
1,1-Dichloropropene	ND	ug/L	2.00	0.284	2	06/25/24 15:02	06/25/24 15:02	563-58-6	
1,3-Dichloropropane	ND	ug/L	2.00	0.220	2	06/25/24 15:02	06/25/24 15:02	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	2.00	0.222	2	06/25/24 15:02	06/25/24 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.00	0.236	2	06/25/24 15:02	06/25/24 15:02	10061-02-6	
2,2-Dichloropropane	ND	ug/L	2.00	0.322	2	06/25/24 15:02	06/25/24 15:02	594-20-7	
Ethylbenzene	ND	ug/L	2.00	0.274	2	06/25/24 15:02	06/25/24 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.00	0.674	2	06/25/24 15:02	06/25/24 15:02	87-68-3	
2-Hexanone	ND	ug/L	20.0	1.57	2	06/25/24 15:02	06/25/24 15:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	2.00	0.210	2	06/25/24 15:02	06/25/24 15:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.00	0.240	2	06/25/24 15:02	06/25/24 15:02	99-87-6	
2-Butanone (MEK)	ND	ug/L	20.0	2.38	2	06/25/24 15:02	06/25/24 15:02	78-93-3	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: HP-34 **Lab ID: 60455438002** Collected: 06/21/24 09:33 Received: 06/22/24 09:00 Matrix: Water

Comments: • Volatile Organic Compounds (GC/MS) by Method 8260D - Elevated RL due to sediment in sample vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Methylene Chloride	**0.992J**	ug/L	10.0	0.860	2	06/25/24 15:02	06/25/24 15:02	75-09-2	J
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	0.956	2	06/25/24 15:02	06/25/24 15:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.00	0.202	2	06/25/24 15:02	06/25/24 15:02	1634-04-4	
Naphthalene	ND	ug/L	10.0	2.00	2	06/25/24 15:02	06/25/24 15:02	91-20-3	
n-Propylbenzene	ND	ug/L	2.00	0.199	2	06/25/24 15:02	06/25/24 15:02	103-65-1	
Styrene	ND	ug/L	2.00	0.236	2	06/25/24 15:02	06/25/24 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.00	0.294	2	06/25/24 15:02	06/25/24 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.00	0.266	2	06/25/24 15:02	06/25/24 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	2.00	0.600	2	06/25/24 15:02	06/25/24 15:02	127-18-4	
Toluene	ND	ug/L	2.00	0.556	2	06/25/24 15:02	06/25/24 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.00	0.460	2	06/25/24 15:02	06/25/24 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.00	0.962	2	06/25/24 15:02	06/25/24 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.00	0.298	2	06/25/24 15:02	06/25/24 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.00	0.316	2	06/25/24 15:02	06/25/24 15:02	79-00-5	
Trichloroethene	ND	ug/L	2.00	0.380	2	06/25/24 15:02	06/25/24 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	0.320	2	06/25/24 15:02	06/25/24 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.00	0.474	2	06/25/24 15:02	06/25/24 15:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	2.00	0.644	2	06/25/24 15:02	06/25/24 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.00	0.208	2	06/25/24 15:02	06/25/24 15:02	108-67-8	
Vinyl chloride	ND	ug/L	2.00	0.468	2	06/25/24 15:02	06/25/24 15:02	75-01-4	C3
Xylene (Total)	ND	ug/L	6.00	0.348	2	06/25/24 15:02	06/25/24 15:02	1330-20-7	
Surrogates									
Toluene-d8 (S)	108	%	80.0-120		2	06/25/24 15:02	06/25/24 15:02	2037-26-5	
Toluene-d8 (S)	106	%	80.0-120		2	06/27/24 01:30	06/27/24 01:30	2037-26-5	
4-Bromofluorobenzene (S)	97.4	%	77.0-126		2	06/25/24 15:02	06/25/24 15:02	460-00-4	
4-Bromofluorobenzene (S)	101	%	77.0-126		2	06/27/24 01:30	06/27/24 01:30	460-00-4	
1,2-Dichloroethane-d4 (S)	93.3	%	70.0-130		2	06/25/24 15:02	06/25/24 15:02	17060-07-0	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		2	06/27/24 01:30	06/27/24 01:30	17060-07-0	

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ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: Trip Blank-04 **Lab ID: 60455438003** Collected: 06/21/24 09:00 Received: 06/22/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Acetone	ND	ug/L	50.0	11.3	1	06/25/24 14:05	06/25/24 14:05	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	06/25/24 14:05	06/25/24 14:05	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	06/25/24 14:05	06/25/24 14:05	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	06/25/24 14:05	06/25/24 14:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	06/25/24 14:05	06/25/24 14:05	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	06/25/24 14:05	06/25/24 14:05	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	06/25/24 14:05	06/25/24 14:05	74-83-9	C3
n-Butylbenzene	ND	ug/L	1.00	0.157	1	06/25/24 14:05	06/25/24 14:05	104-51-8	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	06/25/24 14:05	06/25/24 14:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	06/25/24 14:05	06/25/24 14:05	98-06-6	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	06/25/24 14:05	06/25/24 14:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	06/25/24 14:05	06/25/24 14:05	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	06/25/24 14:05	06/25/24 14:05	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	06/25/24 14:05	06/25/24 14:05	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192	1	06/25/24 14:05	06/25/24 14:05	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	06/25/24 14:05	06/25/24 14:05	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	06/25/24 14:05	06/25/24 14:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	06/25/24 14:05	06/25/24 14:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	06/25/24 14:05	06/25/24 14:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	06/25/24 14:05	06/25/24 14:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	06/25/24 14:05	06/25/24 14:05	106-93-4	
Dibromomethane	ND	ug/L	1.00	0.122	1	06/25/24 14:05	06/25/24 14:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	06/25/24 14:05	06/25/24 14:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	06/25/24 14:05	06/25/24 14:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	06/25/24 14:05	06/25/24 14:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	06/25/24 14:05	06/25/24 14:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	06/25/24 14:05	06/25/24 14:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	06/25/24 14:05	06/25/24 14:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	06/25/24 14:05	06/25/24 14:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	06/25/24 14:05	06/25/24 14:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	06/25/24 14:05	06/25/24 14:05	156-60-5	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	06/25/24 14:05	06/25/24 14:05	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	06/25/24 14:05	06/25/24 14:05	78-87-5	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	06/25/24 14:05	06/25/24 14:05	563-58-6	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	06/25/24 14:05	06/25/24 14:05	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	06/25/24 14:05	06/25/24 14:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	06/25/24 14:05	06/25/24 14:05	10061-02-6	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	06/25/24 14:05	06/25/24 14:05	594-20-7	
Ethylbenzene	ND	ug/L	1.00	0.137	1	06/25/24 14:05	06/25/24 14:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	06/25/24 14:05	06/25/24 14:05	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.787	1	06/25/24 14:05	06/25/24 14:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	06/25/24 14:05	06/25/24 14:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	06/25/24 14:05	06/25/24 14:05	99-87-6	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	06/25/24 14:05	06/25/24 14:05	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430	1	06/25/24 14:05	06/25/24 14:05	75-09-2	

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(913)599-5665

ANALYTICAL RESULTS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Sample: Trip Blank-04 **Lab ID: 60455438003** Collected: 06/21/24 09:00 Received: 06/22/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	06/25/24 14:05	06/25/24 14:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	06/25/24 14:05	06/25/24 14:05	1634-04-4	
Naphthalene	ND	ug/L	5.00	1.00	1	06/25/24 14:05	06/25/24 14:05	91-20-3	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	06/25/24 14:05	06/25/24 14:05	103-65-1	
Styrene	ND	ug/L	1.00	0.118	1	06/25/24 14:05	06/25/24 14:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	06/25/24 14:05	06/25/24 14:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	06/25/24 14:05	06/25/24 14:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	06/25/24 14:05	06/25/24 14:05	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	06/25/24 14:05	06/25/24 14:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	06/25/24 14:05	06/25/24 14:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	06/25/24 14:05	06/25/24 14:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	06/25/24 14:05	06/25/24 14:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	06/25/24 14:05	06/25/24 14:05	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190	1	06/25/24 14:05	06/25/24 14:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	06/25/24 14:05	06/25/24 14:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	06/25/24 14:05	06/25/24 14:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	06/25/24 14:05	06/25/24 14:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	06/25/24 14:05	06/25/24 14:05	108-67-8	
Vinyl chloride	ND	ug/L	1.00	0.234	1	06/25/24 14:05	06/25/24 14:05	75-01-4	C3
Xylene (Total)	ND	ug/L	3.00	0.174	1	06/25/24 14:05	06/25/24 14:05	1330-20-7	
Surrogates									
Toluene-d8 (S)	108	%	80.0-120		1	06/25/24 14:05	06/25/24 14:05	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77.0-126		1	06/25/24 14:05	06/25/24 14:05	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130		1	06/25/24 14:05	06/25/24 14:05	17060-07-0	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

QC Batch: 2311747
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455438001, 60455438002, 60455438003

METHOD BLANK: R4086604-2 Matrix: Water
Associated Lab Samples: 60455438001, 60455438002, 60455438003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/25/24 10:41	
Benzene	ug/L	ND	1.00	0.0941	06/25/24 10:41	
Bromobenzene	ug/L	ND	1.00	0.118	06/25/24 10:41	
Bromochloromethane	ug/L	ND	1.00	0.128	06/25/24 10:41	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/25/24 10:41	
Bromoform	ug/L	ND	1.00	0.129	06/25/24 10:41	
Bromomethane	ug/L	ND	5.00	0.605	06/25/24 10:41	
n-Butylbenzene	ug/L	ND	1.00	0.157	06/25/24 10:41	
sec-Butylbenzene	ug/L	ND	1.00	0.125	06/25/24 10:41	
tert-Butylbenzene	ug/L	ND	1.00	0.127	06/25/24 10:41	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/25/24 10:41	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/25/24 10:41	
Chlorobenzene	ug/L	ND	1.00	0.116	06/25/24 10:41	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/25/24 10:41	
Chloroethane	ug/L	ND	5.00	0.192	06/25/24 10:41	
Chloroform	ug/L	ND	5.00	0.111	06/25/24 10:41	
Chloromethane	ug/L	ND	2.50	0.960	06/25/24 10:41	
2-Chlorotoluene	ug/L	ND	1.00	0.106	06/25/24 10:41	
4-Chlorotoluene	ug/L	ND	1.00	0.114	06/25/24 10:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	06/25/24 10:41	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	06/25/24 10:41	
Dibromomethane	ug/L	ND	1.00	0.122	06/25/24 10:41	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/25/24 10:41	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	06/25/24 10:41	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	06/25/24 10:41	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/25/24 10:41	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/25/24 10:41	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/25/24 10:41	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/25/24 10:41	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/25/24 10:41	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/25/24 10:41	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	06/25/24 10:41	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/25/24 10:41	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	06/25/24 10:41	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	06/25/24 10:41	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/25/24 10:41	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/25/24 10:41	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	06/25/24 10:41	
Ethylbenzene	ug/L	ND	1.00	0.137	06/25/24 10:41	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	06/25/24 10:41	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

METHOD BLANK: R4086604-2 Matrix: Water
Associated Lab Samples: 60455438001, 60455438002, 60455438003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Hexanone	ug/L	ND	10.0	0.787	06/25/24 10:41	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	06/25/24 10:41	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	06/25/24 10:41	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/25/24 10:41	
Methylene Chloride	ug/L	ND	5.00	0.430	06/25/24 10:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/25/24 10:41	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	06/25/24 10:41	
Naphthalene	ug/L	ND	5.00	1.00	06/25/24 10:41	
n-Propylbenzene	ug/L	ND	1.00	0.0993	06/25/24 10:41	
Styrene	ug/L	ND	1.00	0.118	06/25/24 10:41	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/25/24 10:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/25/24 10:41	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/25/24 10:41	
Toluene	ug/L	ND	1.00	0.278	06/25/24 10:41	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	06/25/24 10:41	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	06/25/24 10:41	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/25/24 10:41	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/25/24 10:41	
Trichloroethene	ug/L	ND	1.00	0.190	06/25/24 10:41	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/25/24 10:41	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/25/24 10:41	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	06/25/24 10:41	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	06/25/24 10:41	
Vinyl chloride	ug/L	ND	1.00	0.234	06/25/24 10:41	
Xylene (Total)	ug/L	ND	3.00	0.174	06/25/24 10:41	
Toluene-d8 (S)	%	107	80.0-120		06/25/24 10:41	
4-Bromofluorobenzene (S)	%	101	77.0-126		06/25/24 10:41	
1,2-Dichloroethane-d4 (S)	%	104	70.0-130		06/25/24 10:41	

LABORATORY CONTROL SAMPLE: R4086604-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	29.1J	116	19.0-160	J
Benzene	ug/L	5.00	5.27	105	70.0-123	
Bromobenzene	ug/L	5.00	4.81	96.2	73.0-121	
Bromochloromethane	ug/L	5.00	5.42	108	76.0-122	
Bromodichloromethane	ug/L	5.00	5.04	101	75.0-120	
Bromoform	ug/L	5.00	4.22	84.4	68.0-132	
Bromomethane	ug/L	5.00	2.96J	59.2	10.0-160	J
n-Butylbenzene	ug/L	5.00	4.56	91.2	73.0-125	
sec-Butylbenzene	ug/L	5.00	5.04	101	75.0-125	
tert-Butylbenzene	ug/L	5.00	4.90	98.0	76.0-124	
Carbon disulfide	ug/L	5.00	5.05	101	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.08	102	68.0-126	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

LABORATORY CONTROL SAMPLE: R4086604-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	5.00	4.80	96.0	80.0-121	
Dibromochloromethane	ug/L	5.00	4.29	85.8	77.0-125	
Chloroethane	ug/L	5.00	4.03J	80.6	47.0-150	J
Chloroform	ug/L	5.00	4.92J	98.4	73.0-120	J
Chloromethane	ug/L	5.00	4.81	96.2	41.0-142	
2-Chlorotoluene	ug/L	5.00	4.90	98.0	76.0-123	
4-Chlorotoluene	ug/L	5.00	4.95	99.0	75.0-122	
1,2-Dibromo-3-chloropropane	ug/L	5.00	4.86J	97.2	58.0-134	J
1,2-Dibromoethane (EDB)	ug/L	5.00	4.71	94.2	80.0-122	
Dibromomethane	ug/L	5.00	5.12	102	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	4.82	96.4	79.0-121	
1,3-Dichlorobenzene	ug/L	5.00	4.92	98.4	79.0-120	
1,4-Dichlorobenzene	ug/L	5.00	5.03	101	79.0-120	
Dichlorodifluoromethane	ug/L	5.00	5.88	118	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.26	105	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.31	106	70.0-128	
1,1-Dichloroethene	ug/L	5.00	4.69	93.8	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	4.89	97.8	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	4.99	99.8	73.0-120	
1,2-Dichloroethene (Total)	ug/L	10.0	9.88	98.8	70.0-130	
1,2-Dichloropropane	ug/L	5.00	5.34	107	77.0-125	
1,1-Dichloropropene	ug/L	5.00	5.19	104	74.0-126	
1,3-Dichloropropane	ug/L	5.00	4.91	98.2	80.0-120	
cis-1,3-Dichloropropene	ug/L	5.00	4.95	99.0	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.87	97.4	78.0-124	
2,2-Dichloropropane	ug/L	5.00	5.66	113	58.0-130	
Ethylbenzene	ug/L	5.00	4.88	97.6	79.0-123	
Hexachloro-1,3-butadiene	ug/L	5.00	4.06	81.2	54.0-138	
2-Hexanone	ug/L	25.0	25.7	103	67.0-149	
Isopropylbenzene (Cumene)	ug/L	5.00	4.75	95.0	76.0-127	
p-Isopropyltoluene	ug/L	5.00	4.94	98.8	76.0-125	
2-Butanone (MEK)	ug/L	25.0	30.5	122	44.0-160	
Methylene Chloride	ug/L	5.00	5.15	103	67.0-120	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	31.6	126	68.0-142	
Methyl-tert-butyl ether	ug/L	5.00	5.48	110	68.0-125	
Naphthalene	ug/L	5.00	4.74J	94.8	54.0-135	J
n-Propylbenzene	ug/L	5.00	5.00	100	77.0-124	
Styrene	ug/L	5.00	4.87	97.4	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.50	90.0	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	5.00	100	65.0-130	
Tetrachloroethene	ug/L	5.00	4.89	97.8	72.0-132	
Toluene	ug/L	5.00	4.94	98.8	79.0-120	
1,2,3-Trichlorobenzene	ug/L	5.00	4.44	88.8	50.0-138	
1,2,4-Trichlorobenzene	ug/L	5.00	4.23	84.6	57.0-137	
1,1,1-Trichloroethane	ug/L	5.00	4.97	99.4	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	4.49	89.8	80.0-120	
Trichloroethene	ug/L	5.00	5.29	106	78.0-124	

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QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

LABORATORY CONTROL SAMPLE: R4086604-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	5.00	5.18	104	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.20	104	73.0-130	
1,2,4-Trimethylbenzene	ug/L	5.00	4.73	94.6	76.0-121	
1,3,5-Trimethylbenzene	ug/L	5.00	4.93	98.6	76.0-122	
Vinyl chloride	ug/L	5.00	3.65	73.0	67.0-131	
Xylene (Total)	ug/L	15.0	14.2	94.7	79.0-123	
Toluene-d8 (S)	%			102	80.0-120	
4-Bromofluorobenzene (S)	%			97.6	77.0-126	
1,2-Dichloroethane-d4 (S)	%			109	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4086604-3 R4086604-4

Parameter	Units	L1748935-35 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	ND	25.0	25.0	32.4	32.2	130	129	10.0-160	0.619	35	
Benzene	ug/L	ND	5.00	5.00	5.82	5.50	116	110	17.0-158	5.65	27	
Bromobenzene	ug/L	ND	5.00	5.00	5.82	6.03	116	121	30.0-149	3.54	28	
Bromochloromethane	ug/L	ND	5.00	5.00	5.25	5.63	105	113	38.0-142	6.99	26	
Bromodichloromethane	ug/L	ND	5.00	5.00	6.03	6.18	121	124	31.0-150	2.46	27	
Bromoform	ug/L	ND	5.00	5.00	4.89	4.62	97.8	92.4	29.0-150	5.68	29	
Bromomethane	ug/L	ND	5.00	5.00	3.04	3.91	60.8	78.2	10.0-160	25.0	38	
n-Butylbenzene	ug/L	ND	5.00	5.00	5.49	6.06	110	121	31.0-150	9.87	30	
sec-Butylbenzene	ug/L	ND	5.00	5.00	6.15	6.94	123	139	33.0-155	12.1	29	
tert-Butylbenzene	ug/L	ND	5.00	5.00	6.13	6.50	123	130	34.0-153	5.86	28	
Carbon disulfide	ug/L	ND	5.00	5.00	4.98	5.00	99.6	100	10.0-156	0.401	28	
Carbon tetrachloride	ug/L	ND	5.00	5.00	6.57	6.33	131	127	23.0-159	3.72	28	
Chlorobenzene	ug/L	ND	5.00	5.00	5.73	5.66	115	113	33.0-152	1.23	27	
Dibromochloromethane	ug/L	ND	5.00	5.00	5.19	5.09	104	102	37.0-149	1.95	27	
Chloroethane	ug/L	ND	5.00	5.00	5.49	5.38	110	108	10.0-160	2.02	30	
Chloroform	ug/L	ND	5.00	5.00	5.95	5.61	119	112	29.0-154	5.88	28	
Chloromethane	ug/L	ND	5.00	5.00	6.02	5.87	120	117	10.0-160	2.52	29	
2-Chlorotoluene	ug/L	ND	5.00	5.00	5.99	6.16	120	123	32.0-153	2.80	28	
4-Chlorotoluene	ug/L	ND	5.00	5.00	5.87	6.08	117	122	32.0-150	3.51	28	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	5.00	4.34J	4.91J	86.8	98.2	22.0-151	12.3	34	J
1,2-Dibromoethane (EDB)	ug/L	ND	5.00	5.00	5.14	5.19	103	104	34.0-147	0.968	27	
Dibromomethane	ug/L	ND	5.00	5.00	5.38	5.22	108	104	30.0-151	3.02	27	
1,2-Dichlorobenzene	ug/L	ND	5.00	5.00	5.59	5.98	112	120	34.0-149	6.74	28	
1,3-Dichlorobenzene	ug/L	ND	5.00	5.00	5.73	6.20	115	124	36.0-146	7.88	27	
1,4-Dichlorobenzene	ug/L	ND	5.00	5.00	5.66	5.97	113	119	35.0-142	5.33	27	
Dichlorodifluoromethane	ug/L	ND	5.00	5.00	7.58	7.35	152	147	10.0-160	3.08	29	
1,1-Dichloroethane	ug/L	ND	5.00	5.00	6.13	6.13	123	123	25.0-158	0.00	27	
1,2-Dichloroethane	ug/L	ND	5.00	5.00	6.04	5.87	121	117	29.0-151	2.85	27	
1,1-Dichloroethene	ug/L	ND	5.00	5.00	5.90	5.79	118	116	11.0-160	1.88	29	
cis-1,2-Dichloroethene	ug/L	ND	5.00	5.00	5.68	5.70	114	114	10.0-160	0.351	27	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4086604-3 R4086604-4

Parameter	Units	L1748935-35 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/L	ND	5.00	5.00	5.32	5.17	106	103	17.0-153	2.86	27	
1,2-Dichloroethene (Total)	ug/L	ND	10.0	10.0	11.0	10.9	110	109	70.0-130	0.913	20	
1,2-Dichloropropane	ug/L	ND	5.00	5.00	6.23	5.81	125	116	30.0-156	6.98	27	
1,1-Dichloropropene	ug/L	ND	5.00	5.00	6.02	6.09	120	122	25.0-158	1.16	27	
1,3-Dichloropropane	ug/L	ND	5.00	5.00	5.72	5.60	114	112	38.0-147	2.12	27	
cis-1,3-Dichloropropene	ug/L	ND	5.00	5.00	5.50	5.13	110	103	34.0-149	6.96	28	
trans-1,3-Dichloropropene	ug/L	ND	5.00	5.00	5.55	5.35	111	107	32.0-149	3.67	28	
2,2-Dichloropropane	ug/L	ND	5.00	5.00	5.92	6.02	118	120	24.0-152	1.68	29	
Ethylbenzene	ug/L	ND	5.00	5.00	5.65	5.59	113	112	30.0-155	1.07	27	
Hexachloro-1,3-butadiene	ug/L	ND	5.00	5.00	4.98	5.94	99.6	119	20.0-154	17.6	34	
2-Hexanone	ug/L	ND	25.0	25.0	26.2	25.2	105	101	21.0-160	3.89	29	
Isopropylbenzene (Cumene)	ug/L	ND	5.00	5.00	5.69	5.84	114	117	28.0-157	2.60	27	
p-Isopropyltoluene	ug/L	ND	5.00	5.00	5.80	6.57	116	131	30.0-154	12.4	29	
2-Butanone (MEK)	ug/L	ND	25.0	25.0	30.0	29.1	120	116	10.0-160	3.05	32	
Methylene Chloride	ug/L	ND	5.00	5.00	5.55	5.41	111	108	23.0-144	2.55	28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	25.0	32.6	32.2	130	129	29.0-160	1.23	29	
Methyl-tert-butyl ether	ug/L	ND	5.00	5.00	5.67	5.55	113	111	28.0-150	2.14	29	
Naphthalene	ug/L	ND	5.00	5.00	4.87J	5.54	97.4	111	12.0-156	12.9	35	J
n-Propylbenzene	ug/L	ND	5.00	5.00	5.95	6.45	119	129	31.0-154	8.06	28	
Styrene	ug/L	ND	5.00	5.00	5.45	5.30	109	106	33.0-155	2.79	28	
1,1,1,2-Tetrachloroethane	ug/L	ND	5.00	5.00	5.07	5.21	101	104	36.0-151	2.72	29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.00	5.00	5.76	5.59	115	112	33.0-150	3.00	28	
Tetrachloroethene	ug/L	ND	5.00	5.00	5.76	5.56	115	111	10.0-160	3.53	27	
Toluene	ug/L	ND	5.00	5.00	5.52	5.50	110	110	26.0-154	0.363	28	
1,2,3-Trichlorobenzene	ug/L	ND	5.00	5.00	5.57	6.33	111	127	17.0-150	12.8	36	
1,2,4-Trichlorobenzene	ug/L	ND	5.00	5.00	5.09	5.45	102	109	24.0-150	6.83	33	
1,1,1-Trichloroethane	ug/L	ND	5.00	5.00	6.44	6.23	129	125	23.0-160	3.31	28	
1,1,2-Trichloroethane	ug/L	ND	5.00	5.00	5.26	5.26	105	105	35.0-147	0.00	27	
Trichloroethene	ug/L	0.275	5.00	5.00	6.14	6.34	117	121	10.0-160	3.21	25	
Trichlorofluoromethane	ug/L	ND	5.00	5.00	6.74	6.86	135	137	17.0-160	1.76	31	
1,2,3-Trichloropropane	ug/L	ND	5.00	5.00	5.58	5.37	112	107	34.0-151	3.84	29	
1,2,4-Trimethylbenzene	ug/L	ND	5.00	5.00	5.33	5.96	107	119	26.0-154	11.2	27	
1,3,5-Trimethylbenzene	ug/L	ND	5.00	5.00	5.95	6.54	119	131	28.0-153	9.45	27	
Vinyl chloride	ug/L	ND	5.00	5.00	4.48	4.89	89.6	97.8	10.0-160	8.75	27	
Xylene (Total)	ug/L	ND	15.0	15.0	16.3	16.7	109	111	29.0-154	2.42	28	
Toluene-d8 (S)	%						102	104	80.0-120			
4-Bromofluorobenzene (S)	%						96.8	95.1	77.0-126			
1,2-Dichloroethane-d4 (S)	%						106	106	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

QC Batch: 2312910
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60455438001, 60455438002

METHOD BLANK: R4087113-2 Matrix: Water
Associated Lab Samples: 60455438001, 60455438002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/26/24 19:33	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/26/24 19:33	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/26/24 19:33	
Toluene-d8 (S)	%	106	80.0-120		06/26/24 19:33	
4-Bromofluorobenzene (S)	%	97.4	77.0-126		06/26/24 19:33	
1,2-Dichloroethane-d4 (S)	%	105	70.0-130		06/26/24 19:33	

LABORATORY CONTROL SAMPLE: R4087113-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	29.8J	119	19.0-160	J
cis-1,2-Dichloroethene	ug/L	5.00	4.84	96.8	73.0-120	
2-Butanone (MEK)	ug/L	25.0	28.7	115	44.0-160	
Toluene-d8 (S)	%			102	80.0-120	
4-Bromofluorobenzene (S)	%			95.1	77.0-126	
1,2-Dichloroethane-d4 (S)	%			108	70.0-130	

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(913)599-5665

QUALIFIERS

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1940108230 Whirlpool
Pace Project No.: 60455438

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60455438001	**HP-33**	8260D	2311747	EPA 8260D	2311747
60455438001	**HP-33**	8260D	2312910	EPA 8260D	2312910
60455438002	**HP-34**	8260D	2311747	EPA 8260D	2311747
60455438002	**HP-34**	8260D	2312910	EPA 8260D	2312910
60455438003	**Trip Blank-04**	8260D	2311747	EPA 8260D	2311747

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Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1749665

1119

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort. Smith AR

Phone: 7205198975
Fax:

Client Project # 19410/08230

Lab Project #

Collected by (print): G. Penaflor

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Acctnum: **PACELKS**
Template:
Prelogin:
TSR: **Nolie Wood/McLain**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260	Remarks	Sample # (lab only)
HP-33	Grab	GW		6/21/24	0823	3	X		-01
HP-34	Grab	GW		6/21/24	0933	3	X		-02
~~Temp Bl~~									
Trip Blank-04	—	—		6/21/24	0900	2	X		-03

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR
2

Temp: 5.4+0.3=5.7 °C Bottles Received:

Date: 6/22/24 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical - Lenexa, KS
for Ramboll KS

Billing Information:
Pace Analytical - Lenexa, KS

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1749665

1119

Report to: **Nolie Wood**

Email To: **nolie.wood@pacelabs.com**

Project Description: **PACELKS-WOOD**

City/State Collected: ~~KS~~ Fort. Smith AR

Phone: 7205198975
Fax:

Client Project # 19410/08230

Lab Project #

Collected by (print): G. Penaflor

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Acctnum: **PACELKS**
Template:
Prelogin:
TSR: **Nolie Wood/McLain**
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260	Remarks	Sample # (lab only)
HP-33	Grab	GW		6/21/24	0823	3	X		-01
HP-34	Grab	GW		6/21/24	0933	3	X		-02
~~Temp Bl~~									
Trip Blank-04	—	—		6/21/24	0900	2	X		-03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Log to PACELKS-WOOD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Ramboll	6/21/24	1020		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 5.4+0.3=5.76
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/22/24 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☐ Samples Pre-Logged into eCOC

State Of Origin: AR

Cert. Needed: ☒ Yes ☐ No

Workorder: 60455438 **Workorder Name:** 1940108230 Whirlpool

Owner Received Date: 6/22/2024 **Results Requested By:** 7/9/2024

Report To	Subcontract To
Nolie Wood Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1401	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

						Preserved Containers						Requested Analysis												
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL						8260 - Full List												LAB USE ONLY
1	HP-33	PS	6/21/2024 08:23	60455438001	Water	3						X												
2	HP-34	PS	6/21/2024 09:33	60455438002	Water	3						X												
3	Trip Blank-04	PS	6/21/2024 09:00	60455438003	Water	2						X												
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Comments

Cooler Temperature on Receipt _____°C | **Custody Seal Y or N** | **Received on Ice Y or N** | **Samples Intact Y or N**

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

August 09, 2024

David Meyer
Ramboll US Consulting, Inc.
82 Corporate Woods
Overland Park, KS 66210

RE: Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Dear David Meyer:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Matthew Barley, Ramboll
Kristen Drucquer, Ramboll US Consulting, Inc.
Jackie Zellmer, Ramboll

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CERTIFICATIONS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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SAMPLE SUMMARY

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60458228001	**HP-50-202408**	Water	08/07/24 09:30	08/08/24 09:00
60458228002	**Trip_Blank1**	Water	08/07/24 08:00	08/08/24 09:00

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SAMPLE ANALYTE COUNT

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60458228001	**HP-50-202408**	EPA 8260D	JHH	68	PAN
60458228002	**Trip_Blank1**	EPA 8260D	JHH	68	PAN

PAN = Pace National - Mt. Juliet

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: August 09, 2024

General Information:
2 samples were analyzed for EPA 8260D by Pace National Mt. Juliet. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 2338931

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: R4104684-1)
  - Naphthalene
- LCSD (Lab ID: R4104684-2)
  - Naphthalene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 2338931

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-50-202408 (Lab ID: 60458228001)
  - 1,2,4-Trichlorobenzene

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

PROJECT NARRATIVE

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Method: **EPA 8260D**
Description: VOA (GC/MS) 8260D
Client: Ramboll_AR
Date: August 09, 2024

Analyte Comments:

QC Batch: 2338931

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

- HP-50-202408 (Lab ID: 60458228001)
  - 1,2-Dibromo-3-chloropropane
  - 1,2,3-Trichlorobenzene
  - Naphthalene
- Trip_Blank1 (Lab ID: 60458228002)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dibromo-3-chloropropane
  - 1,2,3-Trichlorobenzene
  - Naphthalene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Sample: HP-50-202408 **Lab ID: 60458228001** Collected: 08/07/24 09:30 Received: 08/08/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	08/08/24 15:10	08/08/24 15:10	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	08/08/24 15:10	08/08/24 15:10	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	08/08/24 15:10	08/08/24 15:10	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	08/08/24 15:10	08/08/24 15:10	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	08/08/24 15:10	08/08/24 15:10	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	08/08/24 15:10	08/08/24 15:10	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	08/08/24 15:10	08/08/24 15:10	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	08/08/24 15:10	08/08/24 15:10	87-61-6	C3
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	08/08/24 15:10	08/08/24 15:10	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	08/08/24 15:10	08/08/24 15:10	120-82-1	C3
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	08/08/24 15:10	08/08/24 15:10	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	08/08/24 15:10	08/08/24 15:10	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	08/08/24 15:10	08/08/24 15:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	08/08/24 15:10	08/08/24 15:10	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	08/08/24 15:10	08/08/24 15:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	08/08/24 15:10	08/08/24 15:10	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	08/08/24 15:10	08/08/24 15:10	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	08/08/24 15:10	08/08/24 15:10	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	08/08/24 15:10	08/08/24 15:10	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	08/08/24 15:10	08/08/24 15:10	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	08/08/24 15:10	08/08/24 15:10	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	08/08/24 15:10	08/08/24 15:10	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	08/08/24 15:10	08/08/24 15:10	78-93-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	08/08/24 15:10	08/08/24 15:10	95-49-8	
2-Hexanone	ND	ug/L	10.0	0.787	1	08/08/24 15:10	08/08/24 15:10	591-78-6	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	08/08/24 15:10	08/08/24 15:10	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	08/08/24 15:10	08/08/24 15:10	108-10-1	
Acetone	ND	ug/L	50.0	11.3	1	08/08/24 15:10	08/08/24 15:10	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	08/08/24 15:10	08/08/24 15:10	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	08/08/24 15:10	08/08/24 15:10	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	08/08/24 15:10	08/08/24 15:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	08/08/24 15:10	08/08/24 15:10	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	08/08/24 15:10	08/08/24 15:10	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	08/08/24 15:10	08/08/24 15:10	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	08/08/24 15:10	08/08/24 15:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	08/08/24 15:10	08/08/24 15:10	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	08/08/24 15:10	08/08/24 15:10	108-90-7	
Chloroethane	ND	ug/L	5.00	0.192	1	08/08/24 15:10	08/08/24 15:10	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	08/08/24 15:10	08/08/24 15:10	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	08/08/24 15:10	08/08/24 15:10	74-87-3	
cis-1,2-Dichloroethene	**0.431J**	ug/L	1.00	0.126	1	08/08/24 15:10	08/08/24 15:10	156-59-2	J
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	08/08/24 15:10	08/08/24 15:10	10061-01-5	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	08/08/24 15:10	08/08/24 15:10	124-48-1	
Dibromomethane	ND	ug/L	1.00	0.122	1	08/08/24 15:10	08/08/24 15:10	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	08/08/24 15:10	08/08/24 15:10	75-71-8	

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ANALYTICAL RESULTS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Sample: HP-50-202408 **Lab ID: 60458228001** Collected: 08/07/24 09:30 Received: 08/08/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Ethylbenzene	ND	ug/L	1.00	0.137	1	08/08/24 15:10	08/08/24 15:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	08/08/24 15:10	08/08/24 15:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	08/08/24 15:10	08/08/24 15:10	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	08/08/24 15:10	08/08/24 15:10	1634-04-4	
Methylene Chloride	ND	ug/L	5.00	0.430	1	08/08/24 15:10	08/08/24 15:10	75-09-2	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	08/08/24 15:10	08/08/24 15:10	104-51-8	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	08/08/24 15:10	08/08/24 15:10	103-65-1	
Naphthalene	ND	ug/L	5.00	1.00	1	08/08/24 15:10	08/08/24 15:10	91-20-3	C3,L0
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	08/08/24 15:10	08/08/24 15:10	99-87-6	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	08/08/24 15:10	08/08/24 15:10	135-98-8	
Styrene	ND	ug/L	1.00	0.118	1	08/08/24 15:10	08/08/24 15:10	100-42-5	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	08/08/24 15:10	08/08/24 15:10	98-06-6	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	08/08/24 15:10	08/08/24 15:10	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	08/08/24 15:10	08/08/24 15:10	108-88-3	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	08/08/24 15:10	08/08/24 15:10	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	08/08/24 15:10	08/08/24 15:10	10061-02-6	
Trichloroethene	**12.1**	ug/L	1.00	0.190	1	08/08/24 15:10	08/08/24 15:10	79-01-6	
Trichlorofluoromethane	**2.41J**	ug/L	5.00	0.160	1	08/08/24 15:10	08/08/24 15:10	75-69-4	J
Vinyl chloride	ND	ug/L	1.00	0.234	1	08/08/24 15:10	08/08/24 15:10	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	08/08/24 15:10	08/08/24 15:10	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%	70.0-130		1	08/08/24 15:10	08/08/24 15:10	17060-07-0	
4-Bromofluorobenzene (S)	91.8	%	77.0-126		1	08/08/24 15:10	08/08/24 15:10	460-00-4	
Toluene-d8 (S)	97.0	%	80.0-120		1	08/08/24 15:10	08/08/24 15:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Sample: Trip_Blank1 **Lab ID: 60458228002** Collected: 08/07/24 08:00 Received: 08/08/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147	1	08/08/24 13:43	08/08/24 13:43	630-20-6	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149	1	08/08/24 13:43	08/08/24 13:43	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133	1	08/08/24 13:43	08/08/24 13:43	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158	1	08/08/24 13:43	08/08/24 13:43	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.00	0.100	1	08/08/24 13:43	08/08/24 13:43	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188	1	08/08/24 13:43	08/08/24 13:43	75-35-4	
1,1-Dichloropropene	ND	ug/L	1.00	0.142	1	08/08/24 13:43	08/08/24 13:43	563-58-6	
1,2,3-Trichlorobenzene	ND	ug/L	1.00	0.230	1	08/08/24 13:43	08/08/24 13:43	87-61-6	C3
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237	1	08/08/24 13:43	08/08/24 13:43	96-18-4	
1,2,4-Trichlorobenzene	ND	ug/L	1.00	0.481	1	08/08/24 13:43	08/08/24 13:43	120-82-1	C3
1,2,4-Trimethylbenzene	ND	ug/L	1.00	0.322	1	08/08/24 13:43	08/08/24 13:43	95-63-6	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.00	0.276	1	08/08/24 13:43	08/08/24 13:43	96-12-8	C3
1,2-Dibromoethane (EDB)	ND	ug/L	1.00	0.126	1	08/08/24 13:43	08/08/24 13:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107	1	08/08/24 13:43	08/08/24 13:43	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819	1	08/08/24 13:43	08/08/24 13:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.00	0.656	1	08/08/24 13:43	08/08/24 13:43	540-59-0	
1,2-Dichloropropane	ND	ug/L	1.00	0.149	1	08/08/24 13:43	08/08/24 13:43	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	1.00	0.104	1	08/08/24 13:43	08/08/24 13:43	108-67-8	
1,3-Dichlorobenzene	ND	ug/L	1.00	0.110	1	08/08/24 13:43	08/08/24 13:43	541-73-1	
1,3-Dichloropropane	ND	ug/L	1.00	0.110	1	08/08/24 13:43	08/08/24 13:43	142-28-9	
1,4-Dichlorobenzene	ND	ug/L	1.00	0.120	1	08/08/24 13:43	08/08/24 13:43	106-46-7	
2,2-Dichloropropane	ND	ug/L	1.00	0.161	1	08/08/24 13:43	08/08/24 13:43	594-20-7	
2-Butanone (MEK)	ND	ug/L	10.0	1.19	1	08/08/24 13:43	08/08/24 13:43	78-93-3	
2-Chlorotoluene	ND	ug/L	1.00	0.106	1	08/08/24 13:43	08/08/24 13:43	95-49-8	
2-Hexanone	ND	ug/L	10.0	0.787	1	08/08/24 13:43	08/08/24 13:43	591-78-6	
4-Chlorotoluene	ND	ug/L	1.00	0.114	1	08/08/24 13:43	08/08/24 13:43	106-43-4	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478	1	08/08/24 13:43	08/08/24 13:43	108-10-1	
Acetone	ND	ug/L	50.0	11.3	1	08/08/24 13:43	08/08/24 13:43	67-64-1	
Benzene	ND	ug/L	1.00	0.0941	1	08/08/24 13:43	08/08/24 13:43	71-43-2	
Bromobenzene	ND	ug/L	1.00	0.118	1	08/08/24 13:43	08/08/24 13:43	108-86-1	
Bromochloromethane	ND	ug/L	1.00	0.128	1	08/08/24 13:43	08/08/24 13:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.00	0.136	1	08/08/24 13:43	08/08/24 13:43	75-27-4	
Bromoform	ND	ug/L	1.00	0.129	1	08/08/24 13:43	08/08/24 13:43	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605	1	08/08/24 13:43	08/08/24 13:43	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962	1	08/08/24 13:43	08/08/24 13:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128	1	08/08/24 13:43	08/08/24 13:43	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116	1	08/08/24 13:43	08/08/24 13:43	108-90-7	
Chloroethane	ND	ug/L	5.00	0.192	1	08/08/24 13:43	08/08/24 13:43	75-00-3	
Chloroform	ND	ug/L	5.00	0.111	1	08/08/24 13:43	08/08/24 13:43	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960	1	08/08/24 13:43	08/08/24 13:43	74-87-3	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126	1	08/08/24 13:43	08/08/24 13:43	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111	1	08/08/24 13:43	08/08/24 13:43	10061-01-5	
Dibromochloromethane	ND	ug/L	1.00	0.140	1	08/08/24 13:43	08/08/24 13:43	124-48-1	
Dibromomethane	ND	ug/L	1.00	0.122	1	08/08/24 13:43	08/08/24 13:43	74-95-3	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374	1	08/08/24 13:43	08/08/24 13:43	75-71-8	

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ANALYTICAL RESULTS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Sample: Trip_Blank1 **Lab ID: 60458228002** Collected: 08/07/24 08:00 Received: 08/08/24 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 8260D Pace National - Mt. Juliet								
Ethylbenzene	ND	ug/L	1.00	0.137	1	08/08/24 13:43	08/08/24 13:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.00	0.337	1	08/08/24 13:43	08/08/24 13:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.00	0.105	1	08/08/24 13:43	08/08/24 13:43	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.00	0.101	1	08/08/24 13:43	08/08/24 13:43	1634-04-4	
Methylene Chloride	ND	ug/L	5.00	0.430	1	08/08/24 13:43	08/08/24 13:43	75-09-2	
n-Butylbenzene	ND	ug/L	1.00	0.157	1	08/08/24 13:43	08/08/24 13:43	104-51-8	
n-Propylbenzene	ND	ug/L	1.00	0.0993	1	08/08/24 13:43	08/08/24 13:43	103-65-1	
Naphthalene	ND	ug/L	5.00	1.00	1	08/08/24 13:43	08/08/24 13:43	91-20-3	C3,L0
p-Isopropyltoluene	ND	ug/L	1.00	0.120	1	08/08/24 13:43	08/08/24 13:43	99-87-6	
sec-Butylbenzene	ND	ug/L	1.00	0.125	1	08/08/24 13:43	08/08/24 13:43	135-98-8	
Styrene	ND	ug/L	1.00	0.118	1	08/08/24 13:43	08/08/24 13:43	100-42-5	
tert-Butylbenzene	ND	ug/L	1.00	0.127	1	08/08/24 13:43	08/08/24 13:43	98-06-6	
Tetrachloroethene	ND	ug/L	1.00	0.300	1	08/08/24 13:43	08/08/24 13:43	127-18-4	
Toluene	ND	ug/L	1.00	0.278	1	08/08/24 13:43	08/08/24 13:43	108-88-3	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149	1	08/08/24 13:43	08/08/24 13:43	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118	1	08/08/24 13:43	08/08/24 13:43	10061-02-6	
Trichloroethene	ND	ug/L	1.00	0.190	1	08/08/24 13:43	08/08/24 13:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160	1	08/08/24 13:43	08/08/24 13:43	75-69-4	
Vinyl chloride	ND	ug/L	1.00	0.234	1	08/08/24 13:43	08/08/24 13:43	75-01-4	
Xylene (Total)	ND	ug/L	3.00	0.174	1	08/08/24 13:43	08/08/24 13:43	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	70.0-130		1	08/08/24 13:43	08/08/24 13:43	17060-07-0	
4-Bromofluorobenzene (S)	92.7	%	77.0-126		1	08/08/24 13:43	08/08/24 13:43	460-00-4	
Toluene-d8 (S)	99.0	%	80.0-120		1	08/08/24 13:43	08/08/24 13:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

QC Batch: 2338931
QC Batch Method: 8260B
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60458228001, 60458228002

METHOD BLANK: R4104684-3 Matrix: Water
Associated Lab Samples: 60458228001, 60458228002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	08/08/24 12:49	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	08/08/24 12:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	08/08/24 12:49	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	08/08/24 12:49	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	08/08/24 12:49	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	08/08/24 12:49	
1,1-Dichloropropene	ug/L	ND	1.00	0.142	08/08/24 12:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.00	0.230	08/08/24 12:49	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	08/08/24 12:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.00	0.481	08/08/24 12:49	
1,2,4-Trimethylbenzene	ug/L	ND	1.00	0.322	08/08/24 12:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.00	0.276	08/08/24 12:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.00	0.126	08/08/24 12:49	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	08/08/24 12:49	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	08/08/24 12:49	
1,2-Dichloroethene (Total)	ug/L	ND	1.00	0.656	08/08/24 12:49	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	08/08/24 12:49	
1,3,5-Trimethylbenzene	ug/L	ND	1.00	0.104	08/08/24 12:49	
1,3-Dichlorobenzene	ug/L	ND	1.00	0.110	08/08/24 12:49	
1,3-Dichloropropane	ug/L	ND	1.00	0.110	08/08/24 12:49	
1,4-Dichlorobenzene	ug/L	ND	1.00	0.120	08/08/24 12:49	
2,2-Dichloropropane	ug/L	ND	1.00	0.161	08/08/24 12:49	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	08/08/24 12:49	
2-Chlorotoluene	ug/L	ND	1.00	0.106	08/08/24 12:49	
2-Hexanone	ug/L	ND	10.0	0.787	08/08/24 12:49	
4-Chlorotoluene	ug/L	ND	1.00	0.114	08/08/24 12:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	08/08/24 12:49	
Acetone	ug/L	ND	50.0	11.3	08/08/24 12:49	
Benzene	ug/L	ND	1.00	0.0941	08/08/24 12:49	
Bromobenzene	ug/L	ND	1.00	0.118	08/08/24 12:49	
Bromochloromethane	ug/L	ND	1.00	0.128	08/08/24 12:49	
Bromodichloromethane	ug/L	ND	1.00	0.136	08/08/24 12:49	
Bromoform	ug/L	ND	1.00	0.129	08/08/24 12:49	
Bromomethane	ug/L	ND	5.00	0.605	08/08/24 12:49	
Carbon disulfide	ug/L	ND	1.00	0.0962	08/08/24 12:49	
Carbon tetrachloride	ug/L	ND	1.00	0.128	08/08/24 12:49	
Chlorobenzene	ug/L	ND	1.00	0.116	08/08/24 12:49	
Chloroethane	ug/L	ND	5.00	0.192	08/08/24 12:49	
Chloroform	ug/L	ND	5.00	0.111	08/08/24 12:49	
Chloromethane	ug/L	ND	2.50	0.960	08/08/24 12:49	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

METHOD BLANK: R4104684-3 Matrix: Water
Associated Lab Samples: 60458228001, 60458228002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	08/08/24 12:49	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	08/08/24 12:49	
Dibromochloromethane	ug/L	ND	1.00	0.140	08/08/24 12:49	
Dibromomethane	ug/L	ND	1.00	0.122	08/08/24 12:49	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	08/08/24 12:49	
Ethylbenzene	ug/L	ND	1.00	0.137	08/08/24 12:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.00	0.337	08/08/24 12:49	
Isopropylbenzene (Cumene)	ug/L	ND	1.00	0.105	08/08/24 12:49	
Methyl-tert-butyl ether	ug/L	ND	1.00	0.101	08/08/24 12:49	
Methylene Chloride	ug/L	ND	5.00	0.430	08/08/24 12:49	
n-Butylbenzene	ug/L	ND	1.00	0.157	08/08/24 12:49	
n-Propylbenzene	ug/L	ND	1.00	0.0993	08/08/24 12:49	
Naphthalene	ug/L	ND	5.00	1.00	08/08/24 12:49	
p-Isopropyltoluene	ug/L	ND	1.00	0.120	08/08/24 12:49	
sec-Butylbenzene	ug/L	ND	1.00	0.125	08/08/24 12:49	
Styrene	ug/L	ND	1.00	0.118	08/08/24 12:49	
tert-Butylbenzene	ug/L	ND	1.00	0.127	08/08/24 12:49	
Tetrachloroethene	ug/L	ND	1.00	0.300	08/08/24 12:49	
Toluene	ug/L	ND	1.00	0.278	08/08/24 12:49	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	08/08/24 12:49	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	08/08/24 12:49	
Trichloroethene	ug/L	ND	1.00	0.190	08/08/24 12:49	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	08/08/24 12:49	
Vinyl chloride	ug/L	ND	1.00	0.234	08/08/24 12:49	
Xylene (Total)	ug/L	ND	3.00	0.174	08/08/24 12:49	
1,2-Dichloroethane-d4 (S)	%	104	70.0-130		08/08/24 12:49	
4-Bromofluorobenzene (S)	%	92.2	77.0-126		08/08/24 12:49	
Toluene-d8 (S)	%	98	80.0-120		08/08/24 12:49	

LABORATORY CONTROL SAMPLE & LCSD: R4104684-1 R4104684-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.38	4.50	87.6	90.0	75.0-125	2.70	20	
1,1,1-Trichloroethane	ug/L	5.00	5.51	5.75	110	115	73.0-124	4.26	20	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.42	4.04	88.4	80.8	65.0-130	8.98	20	
1,1,2-Trichloroethane	ug/L	5.00	4.56	4.77	91.2	95.4	80.0-120	4.50	20	
1,1-Dichloroethane	ug/L	5.00	5.03	5.13	101	103	70.0-126	1.97	20	
1,1-Dichloroethene	ug/L	5.00	5.56	5.64	111	113	71.0-124	1.43	20	
1,1-Dichloropropene	ug/L	5.00	5.19	5.17	104	103	74.0-126	0.386	20	
1,2,3-Trichlorobenzene	ug/L	5.00	3.21	3.10	64.2	62.0	50.0-138	3.49	20	
1,2,3-Trichloropropane	ug/L	5.00	4.68	4.79	93.6	95.8	73.0-130	2.32	20	
1,2,4-Trichlorobenzene	ug/L	5.00	3.92	3.71	78.4	74.2	57.0-137	5.50	20	
1,2,4-Trimethylbenzene	ug/L	5.00	4.18	4.20	83.6	84.0	76.0-121	0.477	20	
1,2-Dibromo-3-chloropropane	ug/L	5.00	3.32J	3.43J	66.4	68.6	58.0-134	3.26	20	J

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

LABORATORY CONTROL SAMPLE & LCSD: R4104684-1 R4104684-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	5.00	4.47	4.47	89.4	89.4	80.0-122	0.00	20	
1,2-Dichlorobenzene	ug/L	5.00	4.27	4.37	85.4	87.4	79.0-121	2.31	20	
1,2-Dichloroethane	ug/L	5.00	5.44	5.26	109	105	70.0-128	3.36	20	
1,2-Dichloroethene (Total)	ug/L	10.0	9.95	10.3	99.5	103	70.0-130	3.46	20	
1,2-Dichloropropane	ug/L	5.00	4.98	4.83	99.6	96.6	77.0-125	3.06	20	
1,3,5-Trimethylbenzene	ug/L	5.00	4.47	4.42	89.4	88.4	76.0-122	1.12	20	
1,3-Dichlorobenzene	ug/L	5.00	4.47	4.49	89.4	89.8	79.0-120	0.446	20	
1,3-Dichloropropane	ug/L	5.00	4.67	4.75	93.4	95.0	80.0-120	1.70	20	
1,4-Dichlorobenzene	ug/L	5.00	4.39	4.27	87.8	85.4	79.0-120	2.77	20	
2,2-Dichloropropane	ug/L	5.00	5.14	5.23	103	105	58.0-130	1.74	20	
2-Butanone (MEK)	ug/L	25.0	22.3	23.1	89.2	92.4	44.0-160	3.52	20	
2-Chlorotoluene	ug/L	5.00	4.49	4.44	89.8	88.8	76.0-123	1.12	20	
2-Hexanone	ug/L	25.0	20.9	22.3	83.6	89.2	67.0-149	6.48	20	
4-Chlorotoluene	ug/L	5.00	4.30	4.48	86.0	89.6	75.0-122	4.10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	20.5	20.9	82.0	83.6	68.0-142	1.93	20	
Acetone	ug/L	25.0	25.0J	25.7J	100	103	19.0-160	2.76	27	J
Benzene	ug/L	5.00	5.08	5.14	102	103	70.0-123	1.17	20	
Bromobenzene	ug/L	5.00	4.41	4.59	88.2	91.8	73.0-121	4.00	20	
Bromochloromethane	ug/L	5.00	4.92	5.03	98.4	101	76.0-122	2.21	20	
Bromodichloromethane	ug/L	5.00	5.09	5.16	102	103	75.0-120	1.37	20	
Bromoform	ug/L	5.00	4.57	4.57	91.4	91.4	68.0-132	0.00	20	
Bromomethane	ug/L	5.00	5.34	5.03	107	101	10.0-160	5.98	25	
Carbon disulfide	ug/L	5.00	5.53	5.60	111	112	61.0-128	1.26	20	
Carbon tetrachloride	ug/L	5.00	5.54	5.88	111	118	68.0-126	5.95	20	
Chlorobenzene	ug/L	5.00	4.53	4.46	90.6	89.2	80.0-121	1.56	20	
Chloroethane	ug/L	5.00	4.64J	4.73J	92.8	94.6	47.0-150	1.92	20	J
Chloroform	ug/L	5.00	5.24	5.21	105	104	73.0-120	0.574	20	
Chloromethane	ug/L	5.00	5.08	5.53	102	111	41.0-142	8.48	20	
cis-1,2-Dichloroethene	ug/L	5.00	4.83	4.94	96.6	98.8	73.0-120	2.25	20	
cis-1,3-Dichloropropene	ug/L	5.00	4.85	5.15	97.0	103	80.0-123	6.00	20	
Dibromochloromethane	ug/L	5.00	4.28	4.48	85.6	89.6	77.0-125	4.57	20	
Dibromomethane	ug/L	5.00	5.22	5.41	104	108	80.0-120	3.57	20	
Dichlorodifluoromethane	ug/L	5.00	5.85	5.81	117	116	51.0-149	0.686	20	
Ethylbenzene	ug/L	5.00	4.39	4.35	87.8	87.0	79.0-123	0.915	20	
Hexachloro-1,3-butadiene	ug/L	5.00	4.82	4.40	96.4	88.0	54.0-138	9.11	20	
Isopropylbenzene (Cumene)	ug/L	5.00	4.10	4.16	82.0	83.2	76.0-127	1.45	20	
Methyl-tert-butyl ether	ug/L	5.00	5.00	5.37	100	107	68.0-125	7.14	20	
Methylene Chloride	ug/L	5.00	5.52	5.45	110	109	67.0-120	1.28	20	
n-Butylbenzene	ug/L	5.00	4.09	4.15	81.8	83.0	73.0-125	1.46	20	
n-Propylbenzene	ug/L	5.00	4.43	4.33	88.6	86.6	77.0-124	2.28	20	
Naphthalene	ug/L	5.00	2.57J	2.59J	51.4	51.8	54.0-135	0.775	20	J,L0
p-Isopropyltoluene	ug/L	5.00	4.12	4.06	82.4	81.2	76.0-125	1.47	20	
sec-Butylbenzene	ug/L	5.00	4.39	4.27	87.8	85.4	75.0-125	2.77	20	
Styrene	ug/L	5.00	4.21	4.09	84.2	81.8	73.0-130	2.89	20	
tert-Butylbenzene	ug/L	5.00	4.32	4.45	86.4	89.0	76.0-124	2.96	20	
Tetrachloroethene	ug/L	5.00	5.32	5.29	106	106	72.0-132	0.566	20	
Toluene	ug/L	5.00	4.57	4.52	91.4	90.4	79.0-120	1.10	20	

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(913)599-5665

QUALITY CONTROL DATA

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

LABORATORY CONTROL SAMPLE & LCSD: R4104684-1 R4104684-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	5.00	5.12	5.36	102	107	73.0-120	4.58	20	
trans-1,3-Dichloropropene	ug/L	5.00	4.66	4.65	93.2	93.0	78.0-124	0.215	20	
Trichloroethene	ug/L	5.00	5.43	5.45	109	109	78.0-124	0.368	20	
Trichlorofluoromethane	ug/L	5.00	6.08	6.12	122	122	59.0-147	0.656	20	
Vinyl chloride	ug/L	5.00	4.97	5.22	99.4	104	67.0-131	4.91	20	
Xylene (Total)	ug/L	15.0	13.1	13.3	87.3	88.7	79.0-123	1.52	20	
1,2-Dichloroethane-d4 (S)	%				98.9	97.1	70.0-130			
4-Bromofluorobenzene (S)	%				90.5	90.2	77.0-126			
Toluene-d8 (S)	%				95.6	92.7	80.0-120			

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QUALIFIERS

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whirlpool Fort Smith
Pace Project No.: 60458228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60458228001	**HP-50-202408**	8260D	2338931	EPA 8260D	2338931
60458228002	**Trip_Blank1**	8260D	2338931	EPA 8260D	2338931

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Company Name/Address:
Pace Analytical - Lenexa, KS

9608 Loiret Boulevard
Lenexa, KS 66219

Billing Information:
PM
9608 Loiret Blvd.
Lenexa, KS 66219

Pres Chk

Report to:
Nolie Wood

Email To:
Nolie.Wood@pacelabs.com;KS_PCs@pacelabs.c

Project Description: WHIRLPOOL FORT SMITH

City/State Collected: FORT SMITH, AR

Please Circle: PT MT CT ET

Phone: **913-563-1401**

Client Project #

Lab Project #
PACELKS-WOOD

Collected by (print): SAMUEL MALLOW

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day STANDARD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
HP-50-202408	G	GW		8/7/24	0930	3	X			-01
TRIP_BLANK 1		GW				1		X		-02
		GW								
		GW								
		GW								
		GW								
TRIP BLANK 1		GW								
TRIP BLANK 2		GW								
TRIP BLANK EXTRA		GW								

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1760[illegible]

Tal 1027

Acctnum: **PACELKS**

Template:**T257474**

Prelogin: **P1091645**

PM: **464 - Nancy McLain**

PB: MV 7/29/24

Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Ramboll

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4047 5446 1384

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature) SAMUEL MALLOW	Date: 8/7/24	Time: 1640	Received by: (Signature) FEDEX	Trip Blank Received: Yes / No HCl / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.3+.3=2.6 °C Bottles Received: 3
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/8/24 Time: 0900

MSA8 TBR 1

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Pace Analytical - Lenexa, KS

9608 Loiret Boulevard
Lenexa, KS 66219

Billing Information:
PM
9608 Loiret Blvd.
Lenexa, KS 66219

Pres Chk

Report to:
Nolie Wood

Email To:
Nolie.Wood@pacelabs.com;KS_PCs@pacelabs.c

Project Description: WHIRLPOOL FORT SMITH

City/State Collected: FORT SMITH, AR

Please Circle: PT MT CT ET

Phone: **913-563-1401**

Client Project #

Lab Project #
PACELKS-WOOD

Collected by (print): SAMUEL MALLOW

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day STANDARD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260 40mlAmb-HCl	V8260 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
HP-50-202408	G	GW		8/7/24	0930	3	X			-01
TRIP_BLANK 1		GW				1		X		-02
		GW								
		GW								
		GW								
		GW								
TRIP BLANK 1		GW								
TRIP BLANK 2		GW								
TRIP BLANK EXTRA		GW								

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1760[illegible]

Tal 1027

Acctnum: **PACELKS**

Template:**T257474**

Prelogin: **P1091645**

PM: **464 - Nancy McLain**

PB: MV 7/29/24

Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:Ramboll

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4047 5446 1384

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
SAMUEL MALLOW	8/7/24	1640	FEDEX
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCl / MeoH
TBR
MSAB

Temp: 2.3 +.3 = 2.6 °C Bottles Received: 3

Date: 8/8/24 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Internal Transfer Chain of Custody

☐ Rush Multiplier_____X

☐ Samples Pre-Logged into eCOC

Cert. Needed: ☒ Yes ☐ No

Workorder: 60458228 **Workorder Name:** Whirlpool Fort Smith **Owner Received Date:** 8/8/2024 **Results Requested By:** 8/22/2024

Report To	Subcontract To
Nolie Wood Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1401	Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HCL						Requested Analysis: V8260 KS Full List												LAB USE ONLY
1	HP-50-202408	PS	8/7/2024 09:30	60458228001	Water	3						X												
2	Trip_Blank1	PS	8/7/2024 08:00	60458228002	Water	1						X												
3																								
4																								
5																								

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Comments

Cooler Temperature on Receipt _____°C | **Custody Seal Y or N** | **Received on Ice Y or N** | **Samples Intact Y or N**

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Appendix C

Data Validation Report

LEVEL II DATA VALIDATION REVIEW

Annual Groundwater Monitoring Event 2024

Whirlpool Corporation

Fort Smith, Arkansas

Laboratory Sample Delivery Groups (SDGs): 680-256885-1, 680-256953-1, 680-257064-1, 680-257090-1, 680-258956-1, 2410344, 2410353A, 2410353B, 2410352, 680-259972-1, 680-259389-1, 680-259310-1 and 60458228.

Laboratory: Eurofins Laboratory located in Savannah, Georgia; Eurofins Environment Testing, LLC located in Lancaster, Pennsylvania; Eurofins Laboratory located in Orlando, Florida; Eurofins Air Toxics located in Folsom, California; Eurofins Laboratory located in Pensacola, Florida; and Pace Analytical Services located in Lenexa, Kansas .

Reviewer: Camden Garret Nix

Date: December 23, 2024

This data validation report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) to assess the validity and usability of laboratory analytical data generated from samples collected during the annual groundwater sampling event at the Whirlpool Corporation, Fort Smith, Arkansas site (Site) between June 17 – June 21, 2024; August 7, 2024; October 7 – October 11, 2024; November 19 – November 20, 2024; December 3 – December 4, 2024; and December 16, 2024.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following document: *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (OLEM 9240.0-51, EPA-540-R-20-005, November 2020) and *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review* (OLEM 9240.1-66, EPA-542-R-20-006, November 2020).

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

One hundred forty-four (144) groundwater samples, 24 air samples, 14 groundwater field duplicates, one air field duplicate, seven equipment rinsate blanks, and 19 trip blanks were analyzed for one or more of the following analyses:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) 8260D;
- VOCs by USEPA TO-15/TO-15 SIM;
- Chloride and sulfate by USEPA 300.0;
- Nitrate, nitrite, and nitrogen as nitrite and nitrate by USEPA 353.2;
- Total organic carbon (TOC) and dissolved organic carbon (DOC) by Standard Method (SM) 5310B-2011;
- Sulfide by SM4500-S2-D;
- Ferric and Ferrous Iron by SM3500;
- Volatile Fatty Acids (VFAs) by Eurofins Laboratory SOP;
- Iron by USEPA 6010D; and

- Dissolved gases (methane, ethane, ethene, and acetylene) by Method RSK-175.

Eurofins Environment Testing (Eurofins) in Lancaster, Pennsylvania and Eurofins Pensacola in Florida performed the analyses for dissolved gases. Eurofins Orlando in Florida performed the analyses for VFAs and Eurofins Savannah in Georgia performed the additional analyses for the aqueous samples. The air analyses were performed by Eurofins Air Toxics in Folsom, California.

The table below summarizes the field sample identifications, sample type, laboratory sample identification and matrix types for the data included in this data set:

Field ID	Sample Type	Lab ID	Matrix
SDG: 680-256885-1			
MW-39R-202410	SA	680-256885-1	Aqueous
ITMW-20-202410	SA	680-256885-2	Aqueous
MW-29-202410	SA	680-256885-3	Aqueous
MW-200-202410	SA	680-256885-4	Aqueous
TMW-20-202410	SA	680-256885-5	Aqueous
MW-211-202410	SA	680-256885-6	Aqueous
MW-97-202410	SA	680-256885-7	Aqueous
MW-207-202410	SA	680-256885-8	Aqueous
MW-26-202410	SA	680-256885-9	Aqueous
TMW-29-202410	SA	680-256885-10	Aqueous
TMW-35-202410	SA	680-256885-11	Aqueous
MW-208-202410	SA	680-256885-12	Aqueous
MW-22-202410	SA	680-256885-13	Aqueous
MW-60R-202410	SA	680-256885-14	Aqueous
MW-98-202410	SA	680-256885-15	Aqueous
MW-209-202410	SA	680-256885-16	Aqueous
TMW-36B-202410	SA	680-256885-17	Aqueous
MW-195-202410	SA	680-256885-18	Aqueous
DUP-05-202410	FD	680-256885-19	Aqueous
ITMW-2R-202410	SA	680-256885-20	Aqueous
TMW-14-202410	SA	680-256885-21	Aqueous
DUP-04-202410	FD	680-256885-22	Aqueous
DUP-01-202410	FD	680-256885-23	Aqueous
MW-184-202410	SA	680-256885-24	Aqueous
DUP-02-202410	FD	680-256885-25	Aqueous
MW-28-202410	SA	680-256885-26	Aqueous
MW-212-202410	SA	680-256885-27	Aqueous
MW-27-202410	SA	680-256885-28	Aqueous
MW-206-202410	SA	680-256885-29	Aqueous
MW-203-202410	SA	680-256885-30	Aqueous
TMW-36-202410	SA	680-256885-31	Aqueous
MW-62R-202410	SA	680-256885-32	Aqueous
TMW-19-202410	SA	680-256885-33	Aqueous
EB-01-202410	EB	680-256885-34	Aqueous
EB-02-202410	EB	680-256885-35	Aqueous
TB-01-202410	TB	680-256885-36	Aqueous
TB-02-202410	TB	680-256885-37	Aqueous
TMW-7-202410	SA	680-256885-38	Aqueous
SDG: 680-256953-1			
MW-213-202410	SA	680-256953-1	Aqueous
MW-183R-202410	SA	680-256953-2	Aqueous

Field ID	Sample Type	Lab ID	Matrix
MW-192-202410	SA	680-256953-3	Aqueous
MW-99-202410	SA	680-256953-4	Aqueous
TMW-30-202410	SA	680-256953-5	Aqueous
DUP-11-202410	FD	680-256953-6	Aqueous
TMW-27-202410	SA	680-256953-7	Aqueous
MW-186-202410	SA	680-256953-8	Aqueous
MW-50R-202410	SA	680-256953-9	Aqueous
TMW-21-202410	SA	680-256953-10	Aqueous
MW-176-202410	SA	680-256953-11	Aqueous
MW-182-202410	SA	680-256953-12	Aqueous
DUP-09-202410	FD	680-256953-13	Aqueous
MW-190-202410	SA	680-256953-14	Aqueous
MW-89-202410	SA	680-256953-15	Aqueous
MW-24-202410	SA	680-256953-16	Aqueous
MW-61R-202410	SA	680-256953-17	Aqueous
VP-07-202410	SA	680-256953-18	Aqueous
VP-08-202410	SA	680-256953-19	Aqueous
MW-202-202410	SA	680-256953-20	Aqueous
MW-188-202410	SA	680-256953-21	Aqueous
VP-12-202410	SA	680-256953-22	Aqueous
VP-14-202410	SA	680-256953-23	Aqueous
TMW-25-202410	SA	680-256953-24	Aqueous
MW-63R-202410	SA	680-256953-25	Aqueous
EB-03-202410	EB	680-256953-26	Aqueous
TB-03-202410	TB	680-256953-27	Aqueous
TB-04-202410	TB	680-256953-28	Aqueous
MW-92-202410	SA	680-256953-29	Aqueous
SDG 680-257064-1			
MW-187-202410	SA	680-257064-1	Aqueous
ITMW-21-202410	SA	680-257064-2	Aqueous
DUP-03-202410	FD	680-257064-3	Aqueous
TMW-32-202410	SA	680-257064-4	Aqueous
TMW-16-202410	SA	680-257064-5	Aqueous
MW-96-202410	SA	680-257064-6	Aqueous
DUP-07-202410	FD	680-257064-7	Aqueous
MW-61R-202410	SA	680-257064-8	Aqueous
TMW-26-202410	SA	680-257064-10	Aqueous
MW-194-202410	SA	680-257064-11	Aqueous
MW-191-202410	SA	680-257064-15	Aqueous
ITMW-16-202410	SA	680-257064-16	Aqueous
MW-40R-202410	SA	680-257064-17	Aqueous
TMW-34-202410	SA	680-257064-18	Aqueous
ITMW-1R-202410	SA	680-257064-19	Aqueous
MW-82-202410	SA	680-257064-20	Aqueous
MW-189-202410	SA	680-257064-21	Aqueous
MW-91-202410	SA	680-257064-22	Aqueous
MW-205-202410	SA	680-257064-23	Aqueous
MW-197-202410	SA	680-257064-24	Aqueous
TMW-22R-202410	SA	680-257064_25	Aqueous
MW-68-202410	SA	680-257064-26	Aqueous
MW-185-202410	SA	680-257064-27	Aqueous

Field ID	Sample Type	Lab ID	Matrix
MW-56R-202410	SA	680-257064-28	Aqueous
RW-69-202410	SA	680-257064-29	Aqueous
MW-201-202410	SA	680-257064-30	Aqueous
TMW-12-202410	SA	680-257064-31	Aqueous
DUP-08-202410	FD	680-257064-32	Aqueous
MW-199-202410	SA	680-257064-33	Aqueous
MW-172-202410	SA	680-257064-34	Aqueous
MW-83-202410	SA	680-257064-35	Aqueous
IW-77-202410	SA	680-257064-36	Aqueous
TMW-10-202410	SA	680-257064-37	Aqueous
EB-04-202410	EB	680-257064-38	Aqueous
TB-05-202410	TB	680-257064-39	Aqueous
TB-06-202410	TB	680-257064-40	Aqueous
IW-73-202410	SA	680-257064-41	Aqueous
MW-198-202410	SA	680-257064-42	Aqueous
TB-07-202410	TB	680-257064-43	Aqueous
TB-08-202410	TB	680-257064-44	Aqueous
SDG 680-257090-1			
MW-25R-202410	SA	680-257090-1	Aqueous
ITMW-6-202410	SA	680-257090-2	Aqueous
MW-175-202410	SA	680-257090-3	Aqueous
MW-178-202410	SA	680-257090-4	Aqueous
MW-93-202410	SA	680-257090-5	Aqueous
ITMW-9-202410	SA	680-257090-6	Aqueous
MW-58R-202410	SA	680-257090-7	Aqueous
TMW-11-202410	SA	680-257090-8	Aqueous
ITMW-5-202410	SA	680-257090-10	Aqueous
MW-95-202410	SA	680-257090-11	Aqueous
MW-84-202410	SA	680-257090-12	Aqueous
MW-57R-202410	SA	680-257090-14	Aqueous
ITMW-18-202410	SA	680-257090-15	Aqueous
TMW-24-202410	SA	680-257090-16	Aqueous
MW-87-202410	SA	680-257090-17	Aqueous
ITMW-10-202410	SA	680-257090-18	Aqueous
RW-1-202410	SA	680-257090-19	Aqueous
MW-215-202410	SA	680-257090-20	Aqueous
EB-05-202410	EB	680-257090-21	Aqueous
EB-06-202410	EB	680-257090-22	Aqueous
ITMW-19-202410	SA	680-257090-23	Aqueous
DUP-10	FD	680-257090-24	Aqueous
TB-09-2024	TB	680-257090-25	Aqueous
TB-10-2024	TB	680-257090-26	Aqueous
MW-38-202410	SA	680-257090-27	Aqueous
TB-11-202410	TB	680-257090-28	Aqueous
SDG: 2410344			
Z6-2-IA-202410	SA	2410344-01	Air
Z6-2-IA-202410	SA	2410344-01	Air
DUP-IA-202410	FD	2410344-02	Air
Z5-2-IA-202410	SA	2410344-03	Air
ZF-OF-IA-202410	SA	2410344-04	Air
Z6-1-IA-202410	SA	2410344-05	Air

Field ID	Sample Type	Lab ID	Matrix
Z5-1-IA-202410	SA	2410344-06	Air
Z3-1-IA-202410	SA	2410344-07	Air
Z4-IA-202410	SA	2410344-08	Air
AA-1-202410	SA	2410344-09	Air
Z3-2-IA-202410	SA	2410344-10	Air
Z4-2-IA-202410	SA	2410344-11	Air
Z2-1-IA-202410	SA	2410344-12	Air
SDG: 2410353A			
AA-2-202410	SA	2410353-03	Air
SDG: 2410353B			
Z6-2-202410	SA	2410353-01	Air
Z5-2-202410	SA	2410353-02	Air
Z3-1-202410	SA	2410353-04	Air
Z4-1-202410	SA	2410353-05	Air
Z5-OF-202410	SA	2410353-06	Air
Z6-1-202410	SA	2410353-07	Air
Z5-1-202410	SA	2410353-08	Air
Z3-2-202410	SA	2410353-09	Air
Z4-2-202410	SA	2410353-10	Air
Z2-1-202410	SA	2410353-11	Air
SDG: 2410452			
Z5-2-IA-202410-2	SA	2410452-01	Air
SDG: 680-258956-1			
IW-78-202411	SA	680-258956-1	Aqueous
MW-204-202411	SA	680-258956-2	Aqueous
MW-46R-202411	SA	680-258956-3	Aqueous
MW-196-202411	SA	680-258956-4	Aqueous
EB-07-202411	EB	680-258956-5	Aqueous
TMW-26-202411	SA	680-258956-6	Aqueous
TMW-16-202411	SA	680-258956-7	Aqueous
TMW-23-202411	SA	680-258956-8	Aqueous
MW-194-202411	SA	680-258956-9	Aqueous
MW-55R-202411	SA	680-258956-10	Aqueous
TB-12-202411	TB	680-258956-11	Aqueous
DUP-06-202411	FD	680-258956-12	Aqueous
SDG: 680-259310-1			
MW-214-202412	SA	680-259310-1	Aqueous
MW-216-202412	SA	680-259310-2	Aqueous
MW-217-202412	SA	680-259310-3	Aqueous
MW-218-202412	SA	680-259310-4	Aqueous
MW-219-202412	SA	680-259310-5	Aqueous
TB-01-202412	TB	680-259310-6	Aqueous
SDG: 680-259389-1			
MW-172-202412	SA	680-259389-1	Aqueous
ITMW-16-202412	SA	680-259389-2	Aqueous
MW-92-202412	SA	680-259389-3	Aqueous
TMW-34-202412	SA	680-259389-4	Aqueous
MW-215-202412	SA	680-259389-5	Aqueous
ITMW-19-202412	SA	680-259389-6	Aqueous
MW-198-202412	SA	680-259389-7	Aqueous
SDG: 680-259972-1			
MW-210-202412	SA	680-259972-1	Aqueous
Trip Blank	TB	680-259972-2	Aqueous
SDG: 60455196			

Field ID	Sample Type	Lab ID	Matrix
HP-27	SA	60455196001	Aqueous
DUP-01-20240617	FD	60455196002	Aqueous
HP-31	SA	60455196003	Aqueous
HP-29	SA	60455196004	Aqueous
HP-30	SA	60455196005	Aqueous
Trip Blank	TB	60455196006	Aqueous
HP-28	SA	60455196007	Aqueous
SDG: 60455280			
Trip Blank-02	TB	60455280001	Aqueous
HP-40	SA	60455280002	Aqueous
HP-38	SA	60455280003	Aqueous
HP-39	SA	60455280004	Aqueous
DUP-02-20240619	FD	60455280005	Aqueous
SDG: 60455437			
Trip Blank-03	TB	60455437001	Aqueous
HP-41	SA	60455437002	Aqueous
HP-32	SA	60455437003	Aqueous
HP-35	SA	60455437004	Aqueous
DUP-03-20240620	FD	60455437005	Aqueous
HP-36	SA	60455437006	Aqueous
HP-37	SA	60455437007	Aqueous
SDG: 60455438			
HP-33	SA	60455438001	Aqueous
HP-34	SA	60455438002	Aqueous
Trip Blank-04	TB	60455438003	Aqueous
SDG: 60458228			
HP-50-202408	SA	60458228001	Aqueous
Trip_Blank1	TB	60458228002	Aqueous

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate EB = Equipment Blank

The laboratory reports were evaluated for the following QC elements:

- Data Package Completeness;
- Sample Preservation and Holding Times;
- Blanks;
- Surrogate Compound Recoveries;
- Laboratory Control Sample (LCS);
- Matrix Spike/Matrix Spike Duplicates (MS/MSD);
- Laboratory and Field Precision; and
- Overall Assessment of Data.

General Overall Assessment:

_____ Data are usable without qualification.

__X__ Data are usable with qualification (noted below).

__X__ Some or all data are unusable for any purpose (detailed below).

1.0 Data Package Completeness

Were all items delivered as specified on the chain-of-custody (COC) and is the data package complete?

No.

The analyses were performed as requested on the COC record besides the following exceptions:

- The sample labelled MW-83-202410 was included on the COC for data package 680-257090-1, but it was not received by the laboratory. This sample was collected on October 10, 2024 and reported in laboratory data package 680-257064-1.
- Sample MW-61R-202410 was marked for multiple methods on the COC for data package 680-256953-1 but the laboratory only received vials for VOC analysis. The other analyses for this sample are included in data package 680-257064-1.
- Due to a refrigerator malfunction, vials containing samples MW-204-202410, MW-46R-202410, TMW-16-202410, MW-55R-202410, TMW-26-202410, MW-194-202410, TMW-23-202410, IW-78-202410, and DUP-06-202410 were broken at the laboratory. Consequently, VOCs were not analyzed for these samples. The samples were recollected, and the results are reported in SDG 680-258956-1.
- One vial from samples MW-196-202411 and MW-55R-202411 was received broken, however, sufficient volume was available to complete the requested testing.
- Samples Z3-IA-202410, Z4-IA-202410 and Z2-1-IA-202410 were analyzed via method TO-15 instead of SIM/Low Level TO-15 due to high levels of non-target compounds.

2.0 Technical Holding Times and Sample Preservation

Were samples received within the required temperature and preservation requirements?

No. All samples were received within the required temperature criteria. All samples were received within the required preservation requirements except the following:

- Samples ITMW-19-202410 and DUP-10 for method RSK-175 had a pH of 4 at the time of analysis and the dissolved gas results were qualified "UJ" as estimated non-detect.
- Sample MW-217-202412 for method RSK-175 had a pH of 2 at the time of analysis. The non-detect dissolved gas results were qualified "UJ" as estimated non-detect and the methane result was qualified "J" as estimated.
- Sample MW-219-202412 for method RSK-175 had a pH of 3 at the time of analysis. The acetylene and methane results were qualified "UJ" as estimated non-detect and the ethane and ethylene results were qualified "J" as estimated.
- Samples TMW-11-202410, ITMW-19-202410, TMW-32-202410, MW-198-202410, MW-92-202410, MW-27-202410, ITMW-7-202410, and DUP-10 had air bubbles greater than 6 millimeters (mm) in diameter in the vials. The non-detect VOC results were qualified "UJ" as estimated non-detects, and the VOC detections were qualified "J-" as estimated with a potential low bias.

Were samples extracted/analyzed within method specific holding time requirements?

No. The following results were qualified for holding time exceedances:

- Forty-three (43) samples were analyzed outside 2X the holding time for ferrous iron which is typically sampled in the field but was requested post sampling. Detected results in the affected samples were qualified "J" as estimated and non-detect results were rejected "R".
- Samples TMW-36-202410 & MW-84-202410 were analyzed outside the holding time for Nitrite as N by method 353.2 and were qualified "J" as estimated.

- Samples ITMW-6-202410, MW-91-202410 and MW-172-202410 were diluted and reanalyzed outside of holding time for trichloroethene and the results were qualified "J" as estimated.
- Seven samples were outside the holding time for VOCs; the detected results in the affected samples were qualified "J" as estimated and non-detect results were qualified "UJ" as estimated non-detect.

The results qualified for holding time exceedances are summarized in the table below.

SDG	Field ID	Analyte	Qualification
680-256885-1	MW-27-202410	Ferrous Iron	J
680-256885-1	TMW-36B-202410	Ferrous Iron	J
680-256885-1	TMW-36-202410	Ferrous Iron	J
680-256885-1	TMW-19-202410	Ferrous Iron	R
680-256953-1	MW-186-202410	Ferrous Iron	J
680-256953-1	MW-89-202410	Ferrous Iron	J
680-256953-1	TMW-25-202410	Ferrous Iron	J
680-256953-1	MW-92-202410	Ferrous Iron	J
680-256953-1	MW-99-202410	Ferrous Iron	R
680-256953-1	MW-50R-202410	Ferrous Iron	R
680-256953-1	TMW-21-202410	Ferrous Iron	R
680-256953-1	MW-24-202410	Ferrous Iron	R
680-257064-1	TMW-32-202410	Ferrous Iron	J
680-257064-1	TMW-16-202410	Ferrous Iron	J
680-257064-1	MW-61R-202410	Ferrous Iron	J
680-257064-1	TMW-26-202410	Ferrous Iron	J
680-257064-1	MW-194-202410	Ferrous Iron	J
680-257064-1	TMW-34-202410	Ferrous Iron	R
680-257064-1	MW-91-202410	Ferrous Iron	J
680-257064-1	TMW-22R-202410	Ferrous Iron	J
680-257064-1	MW-185-202410	Ferrous Iron	R
680-257064-1	RW-69-202410	Ferrous Iron	J
680-257064-1	MW-172-202410	Ferrous Iron	J
680-257064-1	MW-83-202410	Ferrous Iron	J
680-257064-1	TW-10-202410	Ferrous Iron	R
680-257064-1	IW-73-202410	Ferrous Iron	R
680-257064-1	MW-198-202410	Ferrous Iron	J
680-257090-1	MW-25-202410	Ferrous Iron	R
680-257090-1	ITMW-9-202410	Ferrous Iron	J
680-257090-1	MW-58R-202410	Ferrous Iron	J
680-257090-1	TMW-11-202410	Ferrous Iron	R
680-257090-1	MW-95-202410	Ferrous Iron	J
680-257090-1	MW-84-202410	Ferrous Iron	R
680-257090-1	MW-87-202410	Ferrous Iron	R
680-257090-1	MW-215-202410	Ferrous Iron	R
680-257090-1	ITMW-19-202410	Ferrous Iron	J
680-257090-1	DUP-10	Ferrous Iron	J
680-257090-1	MW-38-202410	Ferrous Iron	J
680-256885-1	TMW-36-202410	Nitrogen, Nitrite (As N)	J
680-257090-1	MW-84-202410	Nitrogen, Nitrite (As N)	J
680-257090-1	ITMW-6-202410	Trichloroethene	J
680-257064-1	MW-91-202410	Trichloroethene	J
680-257064-1	Mw-172-202410	Trichloroethene	J
680-257064-1	MW-187-202410	VOCs	UJ (non-detects)/ J (detects)
680-257064-1	MW-56R-202410	VOCs	UJ (non-detects)/ J (detects)

SDG	Field ID	Analyte	Qualification
680-257090-1	MW-25R-202410	VOCs	UJ(non-detects)/ J(detects)
680-257090-1	MW-175-202410	VOCs	UJ(non-detects)/ J(detects)
680-257090-1	MW-84-202410	VOCs	UJ(non-detects)/ J(detects)
680-257090-1	MW-57R-202410	VOCs	UJ(non-detects)/ J(detects)
680-257090-1	ITMW-18-202410	VOCs	UJ(non-detects)/ J(detects)
680-259310-1	MW-214-202412	Ferrous Iron	J
680-259310-1	MW-216-202412	Ferrous Iron	J
680-259310-1	MW-217-202412	Ferrous Iron	J
680-259310-1	MW-218-202412	Ferrous Iron	J
680-259310-1	MW-219-202412	Ferrous Iron	J
680-259389-1	ITMW-16-202412	Ferrous Iron	R
680-259389-1	TMW-34-202412	Ferrous Iron	R

ID = Identification
J = Estimated
R = Rejected
SDG = Sample delivery group
UJ = Estimated non-detect

3.0 Blank Contamination

Were any analytes detected in the associated laboratory or field blanks?

Yes. The following table summarizes analytes detected in laboratory method and field blanks collected as part of this data set:

SDG	Blank ID	Blank Type	Analyte	Concentration	Units
680-256953-1	MB 680-859094/14	Method	Nitrite as N	0.0240 J	mg/L
680-256885-1	MB 680-858740/3	Method	Nitrite as N	0.0116 J	mg/L
680-256885-1	MB 680-859094/14	Method	Nitrite as N	0.0240 J	mg/L
680-257090-1	MB 680-859199/13	Method	Nitrite as N	0.0164 J	mg/L
680-257090-1	EB-06-202410	Equipment	Acetone	6.8 J	µg/L
680-259310-1	MB 680-867635/9	Method	Acetone	5.99 J	µg/L
680-259310-1	MB 680-867367/12	Method	Nitrite as N	0.0214 J	mg/L
680-259310-1	MB 680-867367/27	Method	Nitrite as N	0.0235 J	mg/L
680-259310-1	MB 680-867363/13	Method	Ferrous Iron	0.0259 J	mg/L
680-259389-1	MB 680-867770/12	Method	Nitrite as N	0.0217 J	mg/L
680-259389-1	MB 680-867827/14	Method	Nitrate/Nitrite as N	0.0110 J	mg/L

ID = Identification
J = Result was detected between the method detection limit and reporting limit and is considered estimated.
µg/L = Micrograms per liter
ppbv = Parts per billion by volume
SDG = Sample delivery group

The results qualified for blank contamination are summarized in the table below.

SDG	Field ID	Analyte	Qualification
680-257090-1	MW-84-202410	Acetone	J+
680-257090-1	MW-87-202410	Acetone	J+
680-256885-1	TMW-36B-202410	Nitrite as N	U
680-256885-1	MW-27-202410	Nitrite as N	J+
680-256885-1	TMW-36-202410	Nitrite as N	U
680-256885-1	TMW-19-202410	Nitrite as N	U
680-256953-1	MW-99-202410	Nitrite as N	U
680-256953-1	MW-186-202410	Nitrite as N	U
680-256953-1	TMW-21-202410	Nitrite as N	U
680-256953-1	MW-24-202410	Nitrite as N	U
680-256953-1	TMW-25-202410	Nitrite as N	U
680-256953-1	MW-92-202410	Nitrite as N	U
680-259310-1	MW-214-202412	Nitrite as N	U
680-259310-1	MW-216-202412	Nitrite as N	U
680-259310-1	MW-218-202412	Nitrite as N	U
680-259310-1	MW-219-202412	Nitrite as N	U
680-259310-1	MW-218-202412	Ferrous Iron	U
680-259310-1	MW-219-202412	Ferrous Iron	U
680-259389-1	ITMW-16-202412	Nitrite as N	U
680-259389-1	ITMW-16-202412	Nitrate/Nitrite as N	U

ID = Identification
J+ = Estimated with a high bias
SDG = Sample delivery group
U = Non-detect

4.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No. The following results were qualified due to surrogate recoveries:

- The percent recoveries (%Rs) for dibromofluoromethane and 1,2-dichloroethane were above the acceptance criteria for sample DUP-10. The VOCs acetone, benzene, cis-1,2-dichloroethene and trichloroethene were qualified "J+" as estimated with a potential high bias.
- The %R for propene was below the acceptance criteria for samples MW-25R-202410, MW-84-202410, ITMW-19-202410 and DUP-10 associated with acetylene, ethane, ethylene and methane. The acetylene, ethane and ethylene results for sample MW-84-202410 were qualified "R" as rejected based on a 0% recovery of the surrogate and because the analytes were not detected in the sample. Methane was qualified "J-" as estimated with a potential low bias for sample MW-84-202410. The remaining dissolved gases were qualified "UJ" as estimated non-detect.
- The %R for propene was below the acceptance criteria for samples MW-83-202410, IW-73-202410 and MW-198-202410. The methane result for sample MW-83-202410 is considered "J-" as estimated with a potential low bias. While the ethane, ethylene and methane results for

sample MW-198-202410 are considered "J-" as estimated with a potential low bias. The remaining dissolved gasses are considered "UJ" as estimated non-detect.

- The %R for propene was below the acceptance criteria for sample MW-92-202410. The acetylene and ethane results were qualified "UJ" as estimated non-detect and the ethylene result was qualified "J-" as estimated with a potential low bias.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No. The LCS provides information on the accuracy of the analytical method and on the laboratory performance. Results that were non-detect associated with LCS recoveries above the acceptance criteria were not qualified for a high bias. The following sample results were qualified due to LCS/LCSD recoveries:

- The %R for ethanol was below the acceptance criteria for the LCSD associated with samples Z6-2-IA-202410, DUP-IA-202410, Z5-2-IA-202410, Z5-2-IA-202410-2 and Z5-OF-IA-202410, and the results were qualified "J-" as estimated with a potential low bias.
- The %R for naphthalene was below the acceptance criteria for the LCS/LCSD associated with samples HP-50-202408 and Trip Blank. The results were qualified "UJ" as estimated non-detect.
- The %R for styrene was below the acceptance criteria for the LCS associated with sample DUP-01. The result was qualified "UJ" as estimated non-detect.
- The %R for acetone was above the acceptance criteria for the LCS associated with sample HP-41. Acetone was detected below the RL and was qualified "J" as estimated.

6.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of these SDGs?

Yes. MS/MSD data are used to assess long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery at the time of sample analysis.

Were MS/MSD recoveries within evaluation criteria?

No. MS/MSD recoveries which were outside acceptance evaluation criteria are summarized in the table below.

SDG	Sample ID	Analyte	MS/MSD Recovery (%) or RPD	MS/MSD Recovery Criteria (%) or RPD Limit
680-256885-1	MW-60R-202410	Acetone	62(MS)/RPD	67-120
680-256885-1	MW-60R-202410	Benzene	63(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Bromochloromethane	65(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Bromoform	35(RPD)	30
680-256885-1	MW-60R-202410	Bromomethane	287(MS)/275 (MSD)	28-192
680-256885-1	MW-60R-202410	Carbon Tetrachloride	68(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Chlorobenzene	64(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Chloroethane	363(MS)	31-213
680-256885-1	MW-60R-202410	Chloroform	34(RPD)	30

SDG	Sample ID	Analyte	MS/MSD Recovery (%) or RPD	MS/MSD Recovery Criteria (%) or RPD Limit
680-256885-1	MW-60R-202410	cis-1,2-Dichloroethene	66(MS)	70-130
680-256885-1	MW-60R-202410	cis-1,3-Dichloropropene	64(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Dibromochloromethane	33(RPD)	30
680-256885-1	MW-60R-202410	1,1-Dichloroethane	31(RPD)	30
680-256885-1	MW-60R-202410	1,2-Dichloroethane	69(MS)	70-130
680-256885-1	MW-60R-202410	1,1-Dichloroethene	31(RPD)	20
680-256885-1	MW-60R-202410	1,3-Dichloropropene, Total	64(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Ethylbenzene	67(MS)/RPD	70-130
680-256885-1	MW-60R-202410	4-Methyl-2-pentanone (MIBK)	60(MS)/RPD	68-120
680-256885-1	MW-60R-202410	Tetrachloroethene	67(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Toluene	65(MS)	70-130
680-256885-1	MW-60R-202410	trans-1,3-Dichloropropene	64(MS)/RPD	70-130
680-256885-1	MW-60R-202410	1,1,1-Trichloroethane	31(RPD)	30
680-256885-1	MW-60R-202410	1,1,2-Trichloroethane	62(MS)/RPD	70-130
680-256885-1	MW-60R-202410	Trichloroethene	62(MS)	70-130
680-256885-1	MW-60R-202410	Xylenes, Total	67(MS)/RPD	70-130
680-256885-1	MW-29-202410	Bromochloromethane	131(MS)	70-130
680-256885-1	MW-29-202410	1,1-Dichloroethene	151(MS)	70-130
680-256885-1	MW-29-202410	trans-1,2-Dichloroethene	131(MS)	70-130
680-256885-1	MW-29-202410	1,1,1-Trichloroethane	137(MS)	70-130
680-256885-1	MW-27-202410	Chloride	168(MSD)	80-120
680-256885-1	TMW-36B-202410	Nitrite as N	442(MS)/ 481(MSD)	90-110
680-256953-1	MW-183R-202410	Bromomethane	238(MS)/ 220(MSD)	28-192
680-256953-1	MW-183R-202410	Chloroethane	306(MS)/ 311(MSD)	31-213
680-256953-1	MW-186-202410	Nitrite as N	113(MSD)	90-110
680-257064-1	MW-187-202410	Bromomethane	244(MS)	28-192
680-257064-1	MW-187-202410	Chloroethane	216(MSD)	31-213
680-257064-1	MW-68-202410	Bromomethane	228(MS)/ 271(MSD)	28-192
680-257064-1	MW-68-202410	Chloroethane	312(MS)/ 331(MSD)	31-213
680-257064-1	TMW-26-202410	Chloride	240(MS)/ 241(MSD)	80-120
680-257064-1	TMW-32-202410	Nitrite as N	111(MSD)	90-110
680-257064-1	MW-61R-202410	Nitrite as N	118(MSD)	90-110
680-257064-1	TMW-32-202410	Nitrite as N	75(MS)/ 64(MSD)	90-110
680-257064-1	MW-194-202410	Nitrite as N	48(MS)/ 62(MSD)	90-110
680-257090-1	MW-84-202410	4-Methyl-2-pentanone (MIBK)	132(MS)	68-120
680-257090-1	MW-84-202410	Vinyl Chloride	55(MS)	66-129
680-257090-1	MW-84-202410	Bromomethane	45(RPD)	30
680-257090-1	MW-84-202410	Chloroethane	50(RPD)	30
680-257090-1	MW-84-202410	Chloromethane	138(MSD)/ 63(RPD)	59-127
680-257090-1	MW-84-202410	Vinyl Chloride	68(RPD)	30
680-257090-1	MW-84-202410	Acetylene	59(MS)/	61-148

SDG	Sample ID	Analyte	MS/MSD Recovery (%) or RPD	MS/MSD Recovery Criteria (%) or RPD Limit
			58(MSD)	
680-257090-1	MW-84-202410	Ethane	66(MS)/ 66(MSD)	85-115
680-257090-1	MW-84-202410	Ethylene	19(MS)/ 21(MSD)	83-115
680-257090-1	MW-84-202410	Methane	67(MS)/ 67(MSD)	85-115
680-257090-1	MW-84-202410	Sulfate	131(MS)/ 130(MSD)	80-120
680-257090-1	MW-84-202410	Nitrite as N	32(MS)/ 35(MSD)	90-110
680-259310-1	MW-218-202412	Nitrate/Nitrite as N	60(MS)/ 61(MSD)	90-110
680-259389-1	ITMW-16-202412	Nitrite as N	89(MS)/ 12(RPD)	90-110 / 10

ID = Identification
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% = Percent
RPD = Relative percent difference
SDG = Sample delivery group

Only the project samples that were used to prepare MS/MSDs were evaluated. The results qualified for MS/MSD recoveries are shown in the table below.

SDG	Sample ID	Analyte	Qualification
680-256885-1	MW-60R-202410	Acetone	UJ
680-256885-1	MW-60R-202410	Benzene	UJ
680-256885-1	MW-60R-202410	Bromochloromethane	UJ
680-256885-1	MW-60R-202410	Carbon Tetrachloride	UJ
680-256885-1	MW-60R-202410	cis-1,2-Dichloroethene	UJ
680-256885-1	MW-60R-202410	cis-1,3-Dichloropropene	UJ
680-256885-1	MW-60R-202410	1,2-Dichloroethane	UJ
680-256885-1	MW-60R-202410	1,3-Dichloropropene, Total	UJ
680-256885-1	MW-60R-202410	Ethylbenzene	UJ
680-256885-1	MW-60R-202410	4-Methyl-2-pentanone (MIBK)	UJ
680-256885-1	MW-60R-202410	Tetrachloroethene	UJ
680-256885-1	MW-60R-202410	Toluene	UJ
680-256885-1	MW-60R-202410	trans-1,3-Dichloropropene	UJ
680-256885-1	MW-60R-202410	1,1,2-Trichloroethane	UJ
680-256885-1	MW-60R-202410	Trichloroethene	UJ
680-256885-1	MW-60R-202410	Xylenes, Total	UJ
680-256885-1	TMW-36B-202410	Nitrite as N	J+
680-256953-1	MW-186-202410	Nitrite as N	J+
680-257064-1	TMW-32-202410	Nitrite as N	UJ
680-257064-1	MW-194-202410	Nitrite as N	J-
680-257090-1	MW-84-202410	Vinyl Chloride	UJ
680-257090-1	MW-84-202410	Acetylene	UJ
680-257090-1	MW-84-202410	Ethane	UJ
680-257090-1	MW-84-202410	Ethylene	UJ

SDG	Sample ID	Analyte	Qualification
680-257090-1	MW-84-202410	Methane	J-
680-257090-1	MW-84-202410	Sulfate	J+
680-257090-1	MW-84-202410	Nitrite as N	J-
680-259310-1	MW-218-202412	Nitrate/Nitrite as N	J-
680-259389-1	ITMW-16-202412	Nitrite as N	J

ID = Identification
J = Estimated
J+ = Estimated with a hight bias
J- = Estimated with a low bias
SDG = Sample delivery group
UJ = Estimated non-detect

7.0 Field Duplicate Results (Field Precision)

Were field duplicate samples collected as part of the evaluated SDGs?

Yes. The table below summarizes field duplicate pairs.

SDG	Field ID	Field Duplicate Identification
60455196	HP-27	DUP-01-20240617
60455280	HP-39	DUP-02-20240619
60455437	HP-35	DUP-03-20240620
680-256885-1	MW-195-202410	DUP-05-202410
680-256885-1	TMW-35-202410	DUP-04-202410
680-256885-1	ITMW-20-202410	DUP-01-202410
680-256885-1	MW-184-202410	DUP-02-202410
680-256953-1	TMW-30-202410	DUP-11-202410
680-256953-1	MW-182-202410	DUP-09-202410
680-257064-1	MW-96-202410	DUP-07-202410
680-257064-1	TMW-12-202410	DUP-08-202410
680-257064-1	ITMW-21-202410	DUP-03-202410
680-257090-1	ITMW-19-202410	DUP-10-202410
680-258956-1	IW-78-202411	DUP-06-202411
2410344	Z6-2-IA-202410	DUP-IA-202410

ID = Identification
SDG = Sample delivery group

Were field duplicates within evaluation criteria?

No. RPDs were calculated for results that were above the reporting limit in both the parent sample and field duplicate. All calculated RPDs were within the precision goal of 30% with the following exceptions. The calculated RPDs for acetone, cis-1,2-dichloroethene and trichloroethene exceeded 30% for field duplicate pair ITMW-19-202410/DUP-10. The results were qualified "J" as estimated for sample ITMW-19-202410 and field duplicate DUP-10 for a potential bias due to precision.

8.0 Detects and Calibration Range

For samples that were diluted and non-detect, were undiluted results also reported?

No. Several samples in this data set were diluted due to the presence of non-target analytes or other matrix interferences. Non-detect results were reported for some analyses with elevated reporting limits.

For samples that were not diluted and detected, were the results within calibration range?

No. Acetone exceeded the calibration range for results reported for samples Z6-1-IA-202410 and Z5-1-IA-202410 and the results were qualified "J" as estimated. In addition, the result for ethanol reported for sample Z5-OF-IA-202410 exceeded the calibration range and the result was qualified "J" as estimated. Results reported between the method detection limit (MDL) and RL in this dataset were qualified "J" as estimated.

9.0 Additional Qualifications

Were additional qualifications applied?

Yes, the following additional data validation qualifiers were applied:

- Sample MW-27-202410 Nitrite as N result was greater than Nitrate-Nitrite as N, therefore, the Nitrite as N was qualified "J" as estimated. Samples Z5-IA-202410-2, Z6-1-IA-202410 and Z3-1-IA-202410 ethyltoluene result peaks coeluted with a non-target peak, therefore, the results were qualified "J+" as estimated with a potential high bias.
- The continuing calibration verification (CCV) %Ds for 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,3-trichlorobenzene and naphthalene were below the acceptance criteria for associated samples HP-50-202408 and Trip Blank1, the results were qualified "UJ" as estimated non-detect.
- The CCV %D for styrene for DUP-01 and for acetone for samples HP-27 and the trip blank submitted on 6/17/2024 were below the acceptance criteria. The results were qualified "UJ" as estimated non-detect.
- The CCV %Ds for bromomethane, naphthalene, and 1,2-dibromo-3-chloropropane associated with samples HP-38, HP-39, DUP-02, and HP-40 were below the acceptance criteria. The results were qualified "UJ" as estimated non-detect.
- The %D for bromomethane associated with the samples HP-32, HP-35, DUP-03, HP-36, HP-37, HP-41, and TRIP BLANK-03 was below the acceptance criteria. The results were qualified "UJ" as estimated non-detect.
- The CCV %Ds for naphthalene, and 1,2-dibromo-3-chloropropane associated with samples HP-41 and TRIP BLANK-03 were below the acceptance criteria. The results were qualified "UJ" as estimated non-detect.
- The CCV %Ds for bromomethane and vinyl chloride associated with samples HP-33, HP-34, and Trip Blank-04 were below the acceptance criteria. The results were qualified "UJ" as estimated non-detect.

10.0 Overall Data Assessment

The data that are not rejected are usable as qualified for the intended purposes based on an evaluation of the QC parameters discussed in this report. The table below summarizes the final qualifications for the analytical data.

Data Qualifier Summary

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-25790-24	DUP-10-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-25790-24	DUP-10-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	1,1-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	Acetone	J+	High Surrogate Recovery, Duplicate Precision, 6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	Acetylene	UJ	Low Surrogate Recovery; Elevated pH
680-257090-24	DUP-10-202410	Benzene	J+	High Surrogate Recovery, 6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Bromoform	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Bromomethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	cis-1,2-Dichloroethene	J+	High Surrogate Recovery, Duplicate Precision, 6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-25790-24	DUP-10-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	Ethane	UJ	Low Surrogate Recovery; Elevated pH
680-25790-24	DUP-10-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	Ethylene	UJ	Low Surrogate Recovery; Elevated pH
680-257090-24	DUP-10-202410	Ferrous Iron	J	Holding Time Exceeded
680-257090-24	DUP-10-202410	Methane	UJ	Low Surrogate Recovery; Elevated pH
680-257090-24	DUP-10-202410	Nitrate Nitrite as N	J	Result Below RL
680-25790-24	DUP-10-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257090-24	DUP-10-202410	Trichloroethene	J+	High Surrogate Recovery, Duplicate Precision, 6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-25790-24	DUP-10-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-256943-6	DUP-11-202410	Vinyl Chloride	J	Result Below RL
680-257090-22	EB-06-202410	Acetone	J	Result Below RL
680-257090-15	ITMW-18-202410	1,1,1-Trichloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,1,2,2-Tetrachloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,1,2-Trichloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,1-Dichloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,1-Dichloroethene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,2-Dichloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	1,3-Dichloropropene (total)	UJ	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-15	ITMW-18-202410	4-Methyl-2-pentanone	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Acetone	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Benzene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Bromochloromethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Bromoform	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Bromomethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Carbon Tetrachloride	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Chlorobenzene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Chloroethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Chloroform	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Chloromethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	cis-1,2-Dichloroethene	J	Holding Time Exceeded
680-257090-15	ITMW-18-202410	cis-1,3 - Dichloropropene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Dibromochloromethane	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Tetrachloroethene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Toluene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	trans-1,2-Dichloroethene	J	Holding Time Exceeded
680-257090-15	ITMW-18-202410	trans-1,3-Dichloropropene	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Trichloroethene	J	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Vinyl Chloride	UJ	Holding Time Exceeded
680-257090-15	ITMW-18-202410	Xylenes (total)	UJ	Holding Time Exceeded
680-257090-23	ITMW-19-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-23	ITMW-19-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	1,1-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Acetone	J	Duplicate Precision, 6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Acetylene	UJ	Low Surrogate Recovery; Elevated pH
680-257090-23	ITMW-19-202410	Benzene	J-	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	cis-1,2-Dichloroethene	J	Duplicate Precision, 6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Ethane	UJ	Low Surrogate Recovery; Elevated pH
680-257090-23	ITMW-19-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Ethylene	UJ	Low Surrogate Recovery;

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
				Elevated pH
680-257090-23	ITMW-19-202410	Ferrous Iron	J	Holding Time Exceeded
680-257090-23	ITMW-19-202410	Methane	UJ	Low Surrogate Recovery; Elevated pH
680-257090-23	ITMW-19-202410	Nitrate Nitrite as N	J	Result Below RL
680-257090-23	ITMW-19-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Trichloroethene	J	Duplicate Precision, 6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-257090-23	ITMW-19-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257064-19	ITMW-1R-202410	Tetrachloroethene	J	Result Below RL
680-257090-10	ITMW-5-202410	cis-1,2-Dichloroethene	J	Result Below RL
680-257090-2	ITMW-6-202410	Trichloroethene	J	Holding Time Exceeded
680-256885-38	ITMW-7-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,1-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Acetone	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Benzene	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-256885-38	ITMW-7-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	cis-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Trichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-256885-38	ITMW-7-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257090-6	ITMW-9-202410	Ferrous Iron	J	Holding Time Exceeded; Result Below RL
680-257090-6	ITMW-9-202410	Nitrite as N	J	Result Below RL
680-257064-41	IW-73-202410	Acetylene	UJ	Low Surrogate Recovery
680-257064-41	IW-73-202410	Ethane	UJ	Low Surrogate Recovery
680-257064-41	IW-73-202410	Ethylene	UJ	Low Surrogate Recovery
680-257064-41	IW-73-202410	Ferrous Iron	R	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-41	IW-73-202410	Methane	UJ	Low Surrogate Recovery
680-257064-34	MW-172-202410	Trichloroethene	J	Holding Time Exceeded
680-257064-34	MW-172-202410	Ferrous Iron	J	Holding Time Exceeded
680-257064-34	MW-172-202410	Nitrite as N	J	Result Below RL
680-257090-3	MW-175-202410	1,1,1-Trichloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,1,2,2-Tetrachloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,1,2-Trichloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,1-Dichloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,1-Dichloroethene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,2-Dichloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	1,3-Dichloropropene (total)	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	4-Methyl-2-pentanone	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Acetone	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Benzene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Bromochloromethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Bromoform	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Bromomethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Carbon Tetrachloride	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Chlorobenzene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Chloroethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Chloroform	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Chloromethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	cis-1,2-Dichloroethene	J	Holding time Exceeded
680-257090-3	MW-175-202410	cis-1,3 - Dichloropropene	UJ	Holding time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-3	MW-175-202410	Dibromochloromethane	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Tetrachloroethene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Toluene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	trans-1,2-Dichloroethene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	trans-1,3-Dichloropropene	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Trichloroethene	J	Holding time Exceeded
680-257090-3	MW-175-202410	Vinyl Chloride	UJ	Holding time Exceeded
680-257090-3	MW-175-202410	Xylenes (total)	UJ	Holding time Exceeded
680-257064-27	MW-185-202410	Ferrous Iron	R	Holding Time Exceeded
680-257064-27	MW-185-202410	Iron	J	Result Below RL
680-257064-27	MW-185-202410	Methane	J	Result Below RL
680-256953-8	MW-186-202410	Acetone	J	Result Below RL
680-256953-8	MW-186-202410	Ferrous Iron	J	Holding Time Exceeded, Result Below RL
680-256953-8	MW-186-202410	Nitrite as N	U	High MSD Recovery, Result Below RL; Method Blank Contamination
680-256953-8	MW-186-202410	Toluene	J	Result Below RL
680-256953-8	MW-186-202410	Vinyl Chloride	J	Result Below RL
680-257064-1	MW-187-202410	1,1,1-Trichloroethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	1,1,2,2-Tetrachloroethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	1,1,2-Trichloroethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	1,1-Dichloroethane	J	Holding Time Exceeded, Result Below RL
680-257064-1	MW-187-202410	1,1-Dichloroethene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	1,2-Dichloroethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	1,3-Dichloropropene (total)	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	4-Methyl-2-pentanone	UJ	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-1	MW-187-202410	Acetone	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Benzene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Bromochloromethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Bromoform	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Bromomethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Carbon Tetrachloride	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Chlorobenzene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Chloroethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Chloroform	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Chloromethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	cis-1,2-Dichloroethene	J	Holding Time Exceeded
680-257064-1	MW-187-202410	cis-1,3-Dichloropropene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Dibromochloromethane	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Tetrachloroethene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Toluene	UJ	Holding Time Exceed
680-257064-1	MW-187-202410	trans-1,2-Dichloroethene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	trans-1,3-Dichloropropene	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Trichloroethene	J	Holding Time Exceeded
680-257064-1	MW-187-202410	Vinyl Chloride	UJ	Holding Time Exceeded
680-257064-1	MW-187-202410	Xylenes (total)	UJ	Holding Time Exceeded
680-257064-11	MW-194-202410	Ferrous Iron	J	Holding Time Exceeded, Result Below RL
680-257064-11	MW-194-202410	Nitrite as N	J	Result Below RL, Low MS/MSD Recovery
680-257064-11	MW-194-202410	Propionic Acid	J	Result Below RL
680-257064-11	MW-194-202410	Sulfate	J	Result Below RL

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-24	MW-197-202410	Chlorobenzene	J	Result Below RL
680-257064-42	MW-198-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,1-Dichlroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Acetone	J-	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Acetylene	UJ	Low Surrogate Recovery
680-257064-42	MW-198-202410	Benzene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	cis-1,2-Dichloroethene	J-	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Ethane	J	Low Surrogate Recovery, Result Below RL
680-257064-42	MW-198-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-42	MW-198-202410	Ethylene	J-	Low Surrogate Recovery
680-257064-42	MW-198-202410	Ferrous Iron	J	Holding Time Exceeded, Result Below RL
680-257064-42	MW-198-202410	Methane	J-	Low Surrogate Recovery
680-257064-42	MW-198-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	trans-1,2-Dichloroethene	J-	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Trichloroethene	J-	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Vinyl Chloride	J-	6mm Air Bubbles in Headspace
680-257064-42	MW-198-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257064-33	MW-199-202410	Chlorobenzene	J	Result Below RL
680-256885-30	MW-203-202410	1,1-Dichloroethene	J	Result Below RL
680-256885-29	MW-206-202410	cis-1,2-Dichloroethene	J	Result Below RL
680-256885-8	MW-207-202410	Chlorobenzene	J	Result Below RL
680-257090-20	MW-215-202410	Ethane	J	Result Below RL
680-257090-20	MW-215-202410	Ethylene	J	Result Below RL
680-257090-20	MW-215-202410	Ferrous Iron	R	Holding Time Exceeded
680-257090-20	MW-215-202410	Sulfate	J	Result Below RL
680-256953-16	MW-24-202410	Ferrous Iron	R	Holding Time Exceeded
680-256953-16	MW-24-202410	Iron	J	Result Below RL
680-256953-16	MW-24-202410	Nitrite as N	U	Result Below RL; Method Blank Contamination
680-257090-1	MW-25R-202410	1,1,1-Trichloroethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	1,1,2,2-Tetrachloroethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	1,1,2-Trichloroethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	1,1-Dichloroethane	J	Result Below RL, Holding Time Exceeded
680-257090-1	MW-25R-202410	1,1-Dichloroethene	J	Holding time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-1	MW-25R-202410	1,2-Dichloroethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	1,3-Dichloropropene (total)	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	4-Methyl-2-pentanone	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Acetone	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Acetylene	UJ	Low Surrogate Recovery
680-257090-1	MW-25R-202410	Benzene	UJ	Holdig time Exceeded
680-257090-1	MW-25R-202410	Bromochloromethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Bromoform	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Bromomethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Carbon Tetrachloride	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Chlorobenzene	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Chloroethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Chloroform	J	Holding time Exceeded
680-257090-1	MW-25R-202410	Chloromethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	cis-1,2-Dichloroethene	J	Holding time Exceeded
680-257090-1	MW-25R-202410	cis-1,3 - Dichloropropene	UJ	Holding Time Exceeded
680-257090-1	MW-25R-202410	Dibromochloromethane	UJ	Holding time Exceeded
680-257090-1	MW-25R-202410	Ethane	UJ	Low Surrogate Recovery
680-257090-1	MW-25R-202410	Ethylene	UJ	Low Surrogate Recovery
680-257090-1	MW-25R-202410	Ferrous Iron	R	Holding Time Exceeded
680-257090-1	MW-25R-202410	Methane	J-	Low Surrogate Recovery
680-257090-1	MW-25R-202410	Tetrachloroethene	J	Holding time Exceeded
680-257090-1	MW-25R-202410	Toluene	UJ	Holding time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-1	MW-25R-202410	trans-1,2-Dichloroethene	J	Holding time Exceeded
680-257090-1	MW-25R-202410	trans-1,3-Dichloropropene	UJ	Holding Time Exceeded
680-257090-1	MW-25R-202410	Trichloroethene	J	Holding time Exceeded
680-257090-1	MW-25R-202410	Vinyl Chloride	J	Holding time Exceeded
680-257090-1	MW-25R-202410	Xylenes (total)	UJ	Holding time Exceeded
680-256885-28	MW-27-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,1-Dichlroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Acetone	J-	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Benzene	J	Result Below RL, 6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	cis-1,2-Dichloroethene	J-	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-256885-28	MW-27-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Ethylene	J	Result Below RL
680-256885-28	MW-27-202410	Ferrous Iron	J	Holding Time Exceeded
680-256885-28	MW-27-202410	Nitrate Nitrite as N	J	Result Below RL
680-256885-28	MW-27-202410	Nitrite as N	J	Method Blank Contamination; Nitrite as N result was greater than Nitrate-Nitrite as N
680-256885-28	MW-27-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Trichloroethene	J	Result Below RL, 6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-256885-28	MW-27-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257090-27	MW-38-202410	Ethylene	J	Result Below RL
680-257090-27	MW-38-202410	Ferrous Iron	J	Holding Time Exceeded
680-257090-27	MW-38-202410	Methane	J	Result Below RL
680-256953-9	MW-50R-202410	Ferrous Iron	R	Holding Time Exceeded
680-256953-9	MW-50R-202410	Sulfate	J	Result Below RL
680-257064-28	MW-56R-202410	1,1,1-Trichloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	1,1,2,2-Tetrachloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	1,1,2-Trichloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	1,1-Dichloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	1,1-Dichloroethene	UJ	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-28	MW-56R-202410	1,2-Dichloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	1,3-Dichloropropene (total)	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	4-Methyl-2-pentanone	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Acetone	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Benzene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Bromochloromethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Bromoform	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Bromomethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Carbon Tetrachloride	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Chlorobenzene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Chloroethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Chloroform	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Chloromethane	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	cis-1,2-Dichloroethene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	cis-1,3 - Dichloropropene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Dibromochloromethane	UJ	Holding time Exceeded
680-257064-28	MW-56R-202410	Tetrachloroethene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Toluene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	trans-1,2-Dichloroethene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	trans-1,3-Dichloropropene	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Trichloroethene	J	Holding Time Exceeded
680-257064-28	MW-56R-202410	Vinyl Chloride	UJ	Holding Time Exceeded
680-257064-28	MW-56R-202410	Xylenes (total)	UJ	Holding time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-14	MW-57R-202410	1,1,1-Trichloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,1,2,2-Tetrachloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,1,2-Trichloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,1-Dichloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,1-Dichloroethene	J	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,2-Dichloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	1,3-Dichloropropene (total)	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	4-Methyl-2-pentanone	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Acetone	J	Holding Time Exceeded
680-257090-14	MW-57R-202410	Benzene	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Bromochloromethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Bromoform	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Bromomethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Carbon Tetrachloride	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Chlorobenzene	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Chloroethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Chloroform	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Chloromethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	cis-1,2-Dichloroethene	J	Holding Time Exceeded
680-257090-14	MW-57R-202410	cis-1,3 - Dichloropropene	UJ	Holding Time Exceeed
680-257090-14	MW-57R-202410	Dibromochloromethane	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Tetrachloroethene	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Toluene	UJ	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-14	MW-57R-202410	trans-1,2-Dichloroethene	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	trans-1,3-Dichloropropene	UJ	Holding Time Exceeed
680-257090-14	MW-57R-202410	Trichloroethene	J	Holding Time Exceeded
680-257090-14	MW-57R-202410	Vinyl Chloride	UJ	Holding Time Exceeded
680-257090-14	MW-57R-202410	Xylenes (total)	UJ	Holding Time Exceeded
680-257090-7	MW-58R-202410	Ferrous Iron	J	Holding Time Exceeded
680-257090-7	MW-58R-202410	Sulfate	J	Result Below RL
680-256885-14	MW-60R-202410	1,1,2-Trichloroethane	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	1,2-Dichloroethane	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	1,3-Dichloropropene, Total	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	4-Methyl-2-pentanone (MIBK)	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Acetone	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Benzene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Bromochloromethane	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Carbon Tetrachloride	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	cis-1,2-Dichloroethene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	cis-1,3-Dichloropropene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Ethylbenzene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Tetrachloroethene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Toluene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	trans-1,3-Dichloropropene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Trichloroethene	UJ	Low MS Recovery
680-256885-14	MW-60R-202410	Xylenes, Total	UJ	Low MS Recovery
680-256953-17	MW-61R-202410	Ferrous Iron	J	Holding Time Exceeded
680-257064-8	MW-61R-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-8	MW-61R-202410	Nitrite as N	J	Result Below RL
680-257064-8	MW-61R-202410	Sulfate	J	Result Below RL
680-257064-20	MW-82-202410	cis-1,2-Dichloroethene	J	Result Below RL
680-257064-35	MW-83-202410	Acetylene	UJ	Low Surrogate Recovery
680-257064-35	MW-83-202410	Cis-1,2-Dichloroethene	J	Result Below RL
680-257064-35	MW-83-202410	Ethane	UJ	Low Surrogate Recovery
680-257064-35	MW-83-202410	Ethylene	UJ	Low Surrogate Recovery

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-35	MW-83-202410	Ferrous Iron	J	Holding Time Exceeded; Result Below RL
680-257064-35	MW-83-202410	Iron	J	Result Below RL
680-257064-35	MW-83-202410	Methane	J-	Low Surrogate Recovery
680-257064-35	MW-83-202410	Nitrite as N	J	Result Below RL
680-257090-12	MW-84-202410	1,1,1-Trichloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,1,2,2-Tetrachloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,1,2-Trichloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,1-Dichloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,1-Dichloroethene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,2-Dichloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	1,3-Dichloropropene (total)	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	4-Methyl-2-pentanone	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Acetone	J	Holding time Exceeded; Equipment Blank Contamination
680-257090-12	MW-84-202410	Acetylene	R	Low Surrogate Recovery; Low MS/MSD Recovery
680-257090-12	MW-84-202410	Benzene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Bromochloromethane	J	Holding time Exceeded
680-257090-12	MW-84-202410	Bromoform	J	Holding time Exceeded
680-257090-12	MW-84-202410	Bromomethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Carbon Tetrachloride	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Chlorobenzene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Chloroethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Chloroform	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Chloromethane	UJ	Holding time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-12	MW-84-202410	cis-1,2-Dichloroethene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	cis-1,3 - Dichloropropene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Dibromochloromethane	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Ethane	R	Low Surrogate Recovery; Low MS/MSD Recovery
680-257090-12	MW-84-202410	Ethylene	R	Low Surrogate Recovery; Low MS/MSD Recovery
680-257090-12	MW-84-202410	Ethyl Benzene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Ferrous Iron	R	Holding Time Exceeded
680-257090-12	MW-84-202410	Iron	J	Result Below RL
680-257090-12	MW-84-202410	Methane	J	Low Surrogate Recovery; Low MS/MSD Recovery; Result Below RL
680-257090-12	MW-84-202410	Nitrite as N	J	Result Below RL; Low MS/MSD Recovery
680-257090-12	MW-84-202410	Nitrogen, Nitrite (As N)	J	Holding Time Exceeded
680-257090-12	MW-84-202410	Sulfate	J+	High MS/MSD Recovery
680-257090-12	MW-84-202410	Tetrachloroethene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Toluene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	trans-1,2-Dichloroethene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	trans-1,3-Dichloropropene	UJ	Holding time Exceeded
680-257090-12	MW-84-202410	Trichloroethene	J	Holding time Exceeded
680-257090-12	MW-84-202410	Vinyl Chloride	UJ	Holding time Exceeded; Low MS Recovery
680-257090-12	MW-84-202410	Xylenes (total)	UJ	Holding time Exceeded
680-257090-17	MW-87-202410	Acetone	J+	Equipment Blank Contamination
680-257090-17	MW-87-202410	Ferrous Iron	R	Holding Time Exceeded

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-17	MW-87-202410	Nitrite as N	J	Result Below RL
680-256953-15	MW-89-202410	Ferrous Iron	J	Result Below RL; Holding Time Exceeded
680-256953-15	MW-89-202410	Methane	J	Result Below RL
680-257064-22	MW-91-202410	Ferrous Iron	J	Result Below RL; Holding time Exceeded
680-257064-22	MW-91-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-22	MW-91-202410	Trichloroethene	J	Holding Time Exceeded
680-256953-29	MW-92-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,1-Dichloroethene	J-	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,1-Dichlroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Acetone	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Acetylene	UJ	Low Surrogate Recovery
680-256953-29	MW-92-202410	Benzene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-256953-29	MW-92-202410	cis-1,2-Dichloroethene	J-	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Ethane	UJ	Low Surrogate Recovery
680-256953-29	MW-92-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Ethylene	J-	Low Surrogate Recovery
680-256953-29	MW-92-202410	Ferrous Iron	J	Holding Time Exceeded
680-256953-29	MW-92-202410	Nitrite as N	U	Result Below RL; Method Blank Contamination
680-256953-29	MW-92-202410	Sulfate	J	Result Below RL
680-256953-29	MW-92-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Trichloroethene	J-	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-256953-29	MW-92-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257090-5	MW-93-202410	cis-1,2-Dichloroethene	J	Result Below RL
680-257090-11	MW-95-202410	Ethane	J	Result Below RL
680-257090-11	MW-95-202410	Ferrous Iron	J	Holding Time Exceeded
680-257090-11	MW-95-202410	Methane	J	Result Below RL
680-256953-4	MW-99-202410	Ferrous Iron	R	Holding Time Exceeded
680-256953-4	MW-99-202410	Nitrite as N	U	Result Below RL; Method Blank contamination
680-256953-4	MW-99-202410	Toluene	J	Result Below RL
680-257064-29	RW-69-202410	Ferrous Iron	J	Holding Time Exceeded
680-257064-37	TMW-10-202410	Ethane	J	Result Below RL

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-37	TMW-10-202410	Ferrous Iron	R	Holding Time Exceeded
680-257064-37	TMW-10-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-37	TMW-10-202410	Nitrite as N	J	Result Below RL
680-257064-37	TMW-10-202410	Toluene	J	Result Below RL
680-257090-8	TMW-11-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,1-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Acetone	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Benzene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Chlorobenzene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	cis-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257090-8	TMW-11-202410	Ferrous Iron	R	Holding Time Exceeded
680-257090-8	TMW-11-202410	Nitrate Nitrite as N	J	Result Below RL
680-257090-8	TMW-11-202410	Nitrite as N	J	Result Below RL
680-257090-8	TMW-11-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Trichloroethene	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-257090-8	TMW-11-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257064-31	TMW-12-202410	1,1-Dichloroethene	J	Result Below RL
680-256885-21	TMW-14-202410	Acetone	J	Result Below RL
680-257064-5	TMW-16-202410	Ethylene	J	Result Below RL
680-257064-5	TMW-16-202410	Ferrous Iron	J	Holding Time Exceeded; Result Below RL
680-257064-5	TMW-16-202410	Nitrite as N	J	Result Below RL
680-256885-33	TMW-19-202410	Ferrous Iron	R	Holding Time Exceeded
680-256885-33	TMW-19-202410	Iron	J	Result Below RL
680-256885-33	TMW-19-202410	Nitrite as N	J	Result Below RL
680-256953-10	TMW-21-202410	Ferrous Iron	R	Holding Time Exceeded
680-256953-10	TMW-21-202410	Nitrate Nitrite as N	J	Result Below RL
680-256953-10	TMW-21-202410	Nitrite as N	U	Result Below RL; Method Blank Contamination
680-256953-10	TMW-21-202410	Toluene	J	Result Below RL
680-257064-25	TMW-22R-202410	Ferrous Iron	J	Holding Time Exceeded; Result Below RL
680-257064-25	TMW-22R-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-25	TMW-22R-202410	Nitrite as N	J	Result Below RL
680-256953-24	TMW-25-202410	Acetone	J	Result Below RL
680-256953-24	TMW-25-202410	cis-1,2-Dichloroethene	J	Result Below RL
680-256953-24	TMW-25-202410	Ferrous Iron	R	Holding Time Exceeded; Result Below RL
680-256953-24	TMW-25-202410	Nitrate as N	J	Result Below RL

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-256953-24	TMW-25-202410	Nitrate Nitrite as N	J	Result Below RL
680-256953-24	TMW-25-202410	Nitrite as N	J	Result Below RL
680-257064-10	TMW-26-202410	Ferrous Iron	J	Holding Time Exceeded; Result Below RL
680-257064-10	TMW-26-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-10	TMW-26-202410	Nitrite as N	J	Result Below RL
680-257064-4	TMW-32-202410	1,1,1-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,1,2,2-Tetrachloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,1,2-Trichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,1-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,1-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,2-Dichloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	1,3-Dichloropropene, Total	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	4-Methyl-2-Pentanone	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Acetone	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Benzene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Bromochloromethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Bromoforom	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Carbon Tetrachloride	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Chlorobenzene	J	6mm Air Bubbles in Headspace; Result Below RL
680-257064-4	TMW-32-202410	Chloroethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Chloroform	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Chloromethane	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	cis-1,2-Dichloroethene	J-	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	cis-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Dibromochloromethane	UJ	6mm Air Bubbles in Headspace

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-257064-4	TMW-32-202410	Ethylbenzene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Ferrous Iron	J	Holding Time Exceeded
680-257064-4	TMW-32-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-4	TMW-32-202410	Nitrite as N	J	Low MS/MSD Recovery; Result Below RL
680-257064-4	TMW-32-202410	Tetrachloroethene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Toluene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	trans-1,2-Dichloroethene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	trans-1,3-Dichloropropene	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Trichloroethene	J-	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Vinyl Chloride	UJ	6mm Air Bubbles in Headspace
680-257064-4	TMW-32-202410	Xylenes, Total	UJ	6mm Air Bubbles in Headspace
680-257064-18	TMW-34-202410	Ferrous Iron	R	Holding Time Exceeded
680-257064-18	TMW-34-202410	Nitrate Nitrite as N	J	Result Below RL
680-257064-18	TMW-34-202410	Sulfate	J	Result Below RL
680-256885-31	TMW-36-202410	1,1-Dichloroethene	J	Result Below RL
680-256885-31	TMW-36-202410	Ferrous Iron	J	Holding Time Exceeded
680-256885-31	TMW-36-202410	Nitrite as N	U	Result Below RL; Holding Time Exceeded; Method Blank Contamination
680-256885-17	TMW-36B-202410	Ferrous Iron	J	Holding Time Exceeded
680-256885-17	TMW-36B-202410	Nitrite as N	U	High MS/MSD Recovery; Result Below RL; Method Blank Contamination
680-256953-18	VP-07-202410	Benzene	J	Result Below RL
680-256953-19	VP-08-202410	cis-1,2-Dichloroethene	J	Result Below RL
2410452-01A	Z5-2-IA-202410-2	Ethanol	J-	Low LCSD Recovery
2410452-01A	Z5-2-IA-202410-2	4-Ethyltoluene	J+	Non-target Coelution Peak
2410344-04A	Z5-OF-IA-202410	Ethanol	J	Exceeds Calibration

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
				Range; Low LCSD Recovery
2410344-05A	Z6-1-IA-202410	Acetone	J	Exceeds Calibration Range
2410344-06A	Z5-1-IA-202410	Acetone	J	Exceeds Calibration Range
2410344-06A	Z5-1-IA-202410	Propylbenzene	J	Result Below RL
2410344-07A	Z3-1-IA-202410	4-Ethyltoluene	J+	Non-target Coelution Peak
2410344-05A	Z6-1-IA-202410	4-Ethyltoluene	J+	Non-target Coelution Peak
2410344-01A	Z6-2-IA-202410	Ethanol	J-	Low LCSD Recovery
680-256885-33	TMW-19-202410	Nitrite as N	U	Method Blank Contamination
2410344-02A	DUP-IA-202410	Ethanol	J-	Low LCSD Recovery
2410344-03A	Z5-2-IA-202410	Ethanol	J-	Low LCSD Recovery
2410344-04A	Z5-OF-IA-202410	Ethanol	J-	Low LCSD Recovery
680-258956-1	IW-78-202411	cis-1,2-Dichloroethene	J	Result Below RL
680-258956-3	MW-46R-202411	1,1-Dichloroethene	J	Result Below RL
680-258956-4	MW-196-202411	Trichloroethene	J	Result Below RL
680-258956-7	TMW-16-202411	Chlorobenzene	J	Result Below RL
680-258956-7	TMW-16-202411	Toluene	J	Result Below RL
680-258956-9	MW-194-202411	Acetone	J	Result Below RL
680-258956-12	DUP-06-202411	cis-1,2-Dichloroemthane	J	Result Below RL
680-256953-24	TMW-25-202410	Nitrite as N	U	Method Blank Contamination
680-259389-1	ITMW-16-202412	Ferrous Iron	R	Holding Time Exceeded
680-259389-1	TMW-34-202412	Ferrous Iron	R	Holding Time Exceeded
680-259389-1	ITMW-16-202412	Nitrite as N	U	Method Blank Contamination; Low MS Recovery; MS/MSD RPD%; Result Below RL
680-259389-1	ITMW-16-202412	Nitrate/Nitrite as N	U	Method Blank Contamination; Result Below RL
680-259389-1	ITMW-16-202412	Nitrate as N	J	Result Below RL
680-259310-1	MW-217-202412	Acetylene	UJ	pH Preservation
680-259310-1	MW-217-202412	Ethane	UJ	pH Preservation

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-259310-1	MW-217-202412	Ethylene	UJ	pH Preservation
680-259310-1	MW-217-202412	Methane	J	pH Preservation
680-259310-1	MW-219-202412	Acetylene	UJ	pH Preservation
680-259310-1	MW-219-202412	Ethane	J	pH Preservation; Result Below RL
680-259310-1	MW-219-202412	Ethylene	J	pH Preservation; Result Below RL
680-259310-1	MW-219-202412	Methane	UJ	pH Preservation
680-259310-1	MW-214-202412	Ferrous Iron	J	Holding Time Exceeded
680-259310-1	MW-216-202412	Ferrous Iron	J	Holding Time Exceeded
680-259310-1	MW-217-202412	Ferrous Iron	J	Holding Time Exceeded
680-259310-1	MW-218-202412	Ferrous Iron	U	Holding Time Exceeded; Method Blank Contamination; Result Below RL
680-259310-1	MW-219-202412	Ferrous Iron	U	Holding Time Exceeded; Method Blank Contamination; Result Below RL
680-259310-1	MW-214-202412	Nitrite as N	U	Method Blank Contamination; Result Below RL
680-259310-1	MW-216-202412	Nitrite as N	U	Method Blank Contamination; Result Below RL
680-259310-1	MW-218-202412	Nitrite as N	U	Method Blank Contamination; Result Below RL
680-259310-1	MW-219-202412	Nitrite as N	U	Method Blank Contamination; Result Below RL
680-259310-1	MW-218-202412	Nitrate/Nitrite as N	J-	Low MS/MSD Recovery
680-259310-1	MW-214-202412	Propionic Acid	J	Result Below RL
680-259310-1	MW-214-202412	Nitrate/Nitrite as N	J	Result Below RL
680-259310-1	MW-214-202412	Nitrate as N	J	Result Below RL
680-259310-1	MW-216-202412	Vinyl Chloride	J	Result Below RL
680-259310-1	MW-216-202412	Ethane	J	Result Below RL
680-259310-1	MW-216-202412	Ethylene	J	Result Below RL
680-259310-1	MW-216-202412	Nitrite as N	J	Result Below RL
680-259310-1	MW-217-202412	Trichloroethene	J	Result Below RL
680-259310-1	MW-217-202412	Nitrate/Nitrite as N	J	Result Below RL
680-259310-1	MW-217-202412	Nitrate as N	J	Result Below RL

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
680-259310-1	MW-218-202412	1,1-Dichloroethene	J	Result Below RL
680-259310-1	MW-218-202412	Methane	J	Result Below RL
680-259310-1	MW-219-202412	Tetrachloroethene	J	Result Below RL
60458228001	HP-50-202408	1,2,4-Trichlorobenzene	UJ	Low CCV Recovery
60458228001	HP-50-202408	1,2-Dibromo-3-Chloropropane	UJ	Low CCV Recovery
60458228001	HP-50-202408	1,2,3-Trichlorobenzene	UJ	Low CCV Recovery
60458228001	HP-50-202408	Naphthalene	UJ	Low CCV Recovery; Low LCS/LCSD Recovery
60458228002	Trip_Blank1	1,2,4-Trichlorobenzene	UJ	Low CCV Recovery
60458228002	Trip_Blank1	1,2-Dibromo-3-Chloropropane	UJ	Low CCV Recovery
60458228002	Trip_Blank1	1,2,3-Trichlorobenzene	UJ	Low CCV Recovery
60458228002	Trip_Blank1	Naphthalene	UJ	Low CCV Recovery; Low LCS/LCSD Recovery
60455280005	DUP-02-20240619	Bromomethane	UJ	Low CCV Recovery
60455280005	DUP-02-20240619	Naphthalene	UJ	Low CCV Recovery
60455280005	DUP-02-20240619	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455280003	HP-38	Chloroform	J	Result Below RL
60455280003	HP-38	Bromomethane	UJ	Low CCV Recovery
60455280003	HP-38	Naphthalene	UJ	Low CCV Recovery
60455280003	HP-38	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455280004	HP-39	Bromomethane	UJ	Low CCV Recovery
60455280004	HP-39	Naphthalene	UJ	Low CCV Recovery
60455280004	HP-39	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455280002	HP-40	1,4-Dichlorobenzene	J	Result Below RL
60455280002	HP-40	Chlorobenzene	J	Result Below RL
60455280002	HP-40	Tetrachloroethene	J	Result Below RL
60455280002	HP-40	Bromomethane	UJ	Low CCV Recovery
60455280002	HP-40	Trichlorofluoromethane	J	Result Below RL
60455280002	HP-40	Naphthalene	UJ	Low CCV Recovery

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
60455280002	HP-40	1,2-Dichlorobenzene	J	Result Below RL
60455280002	HP-40	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455437005	DUP-03-20240620	Bromomethane	UJ	Low CCV Recovery
60455437003	HP-32	Bromomethane	UJ	Low CCV Recovery
60455437003	HP-32	Trichloroethene	J	Result Below RL
60455437004	HP-35	Bromomethane	UJ	Low CCV Recovery
60455437006	HP-36	4-Methyl-2-pentanone	J	Result Below RL
60455437006	HP-36	Toluene	J	Result Below RL
60455437006	HP-36	Xylenes (total)	J	Result Below RL
60455437006	HP-36	Acetone	J	Result Below RL
60455437006	HP-36	Chloroform	J	Result Below RL
60455437006	HP-36	Benzene	J	Result Below RL
60455437006	HP-36	Bromomethane	UJ	Low CCV Recovery
60455437006	HP-36	Carbon Disulfide	J	Result Below RL
60455437006	HP-36	2-Butanone	J	Result Below RL
60455437007	HP-37	Ethyl Benzene	J	Result Below RL
60455437007	HP-37	Toluene	J	Result Below RL
60455437007	HP-37	Xylenes (total)	J	Result Below RL
60455437007	HP-37	Methyl tert-butyl ether	J	Result Below RL
60455437007	HP-37	Acetone	J	Result Below RL
60455437007	HP-37	Benzene	J	Result Below RL
60455437007	HP-37	Bromomethane	UJ	Low CCV Recovery
60455437007	HP-37	Carbon Disulfide	J	Result Below RL
60455437002	HP-41	Acetone	J	Result Below RL; LCS recovery low
60455437002	HP-41	Benzene	J	Result <RL
60455437002	HP-41	Bromomethane	UJ	Low CCV Recovery
60455437002	HP-41	2-Butanone	J	Result Below RL
60455437002	HP-41	Naphthalene	UJ	Low CCV Recovery
60455437002	HP-41	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455437001	Trip Blank-03 20240620	Bromomethane	UJ	Low CCV Recovery
60455437001	Trip Blank-03 20240620	Naphthalene	UJ	Low CCV Recovery
60455437001	Trip Blank-03 20240620	1,2-Dibromo-3-chloropropane	UJ	Low CCV Recovery
60455438001	HP-33	Benzene	J	Result Below RL
60455438001	HP-33	Bromomethane	UJ	Low CCV Recovery

Lab Sample ID	Field ID	Analyte	Qualifier	Reason for Qualification
60455438001	HP-33	Vinyl Chloride	UJ	Low CCV Recovery
60455438002	HP-34	Bromomethane	UJ	Low CCV Recovery
60455438002	HP-34	Vinyl Chloride	UJ	Low CCV Recovery
60455438002	HP-34	Methylene Chloride	J	Result Below RL
60455438003	Trip Blank-04 20240621	Bromomethane	UJ	Low CCV Recovery
60455438003	Trip Blank-04 20240621	Vinyl Chloride	UJ	Low CCV Recovery
60455196002	DUP-01-20240617	Styrene	UJ	LCS recovery low; Low CCV Recovery
60455196001	HP-27	Acetone	UJ	Low CCV Recovery
60455196007	HP-28	2-Butanone	J	Result Below RL
60455196005	HP-30	Acetone	J	Result Below RL
60455196003	HP-31	Trichlorofluoromethane	J	Result Below RL
60455196006	TRIP BLANK 20240617	Acetone	UJ	Low CCV Recovery

Data Validation Qualifiers:

U = Non-detect. The compound was analysed for, but not detected.

J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.

J+ = Estimated with a high bias. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.

J- = Estimated with a low bias. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.

UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or another spike recovery.

R = Rejected. The sample results are unusable due to the quality of the data generated.

Appendix D

Historical Data Summary

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
DP-01	DP-01-20131219	12/19/2013	N	8.0	< 5.0 U	< 2.0 U
DP-02	DP-02-20131220	12/20/2013	N	270	8.2	0.33 J
DP-02	DP-02-20131220-FD	12/20/2013	FD	270	8.7	0.34 J
DP-03	DP-03-20131218	12/18/2013	N	120	5.1	0.14 J
DP-04	DP-04-20131218	12/18/2013	N	57	2.3 J	0.15 J
DP-05	DP-05-20131217	12/17/2013	N	2.2 J	< 5.0 U	< 2.0 U
DP-07	DP-07-20131217	12/17/2013	N	12000	97	21
DP-12	DP-12-20140111	1/11/2014	N	390	140	1.6 J
DP-12	DP-12-20140111-FD	1/11/2014	FD	490	140	1.3 J
DP-14	DP-14-20140109	1/9/2014	N	17000	150	16 J
DP-16	DP-16-20140110	1/10/2014	N	390	48	3.6
DP-18	DP-18-20140110	1/10/2014	N	2800	170	< 20 U
DP-22	DP-22-20140111	1/11/2014	N	170	3.0 J	< 2.0 U
DP-38	DP-38-082014	8/5/2014	N	1.5 J	2.9 J	< 2.0 U
DP-39	DP-39 - 082014	8/6/2014	N	18.1	0.78 J	< 2.0 U
DP-40	DP-40 - 082014	8/11/2014	N	3.2 J	0.55 J	< 2.0 U
DP-41	DP-41 - 082014	8/11/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-42	DP-42 - 082014	8/11/2014	N	6.4	< 5.0 U	< 2.0 U
DP-43	DP-43 - 082014	8/11/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-44	DP-44 - 082014	8/11/2014	N	< 25.0 U	< 25.0 U	< 10.0 U
DP-45	DP-45 - 082014	8/11/2014	N	6.8	1.3 J	< 2.0 U
DP-46	DP-46-082014	8/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-47	DP-47-082014	8/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-48	DP-48-082014	8/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-49	DP-49-GW-20140817	8/17/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-50	DP-50-082014	8/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-51	DP-51-GW-082014	8/20/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-52	DP-52-GW-082014	8/19/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-53	DP-53-GW-082014	8/20/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-57	DP-57-GW-20140825	8/25/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-58	DP-58-GW-082014	8/26/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-59	DP-59-GW-082014	8/26/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-60	DP-60-GW-082014	8/26/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-61	DP-61-GW-082014	8/26/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
DP-62	DP-62-GW-082014	8/27/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
HM-HP-01	HM-HP-01-WG-39.5	7/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
HM-HP-02	HM-HP-02-WG-31	7/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
HM-HP-03	HM-HP-03-WG-37	7/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
HM-HP-04	HM-HP-04-WG-38	7/15/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
HP-02	HP-02-20180404	4/4/2018	N	63.4	5.9	0.16 J
HP-03	HP-03-20180404	4/4/2018	N	244	7.9	0.29 J
HP-04	HP-04-20180404	4/4/2018	N	6.6	2.2	< 1.0 U
HP-05	HP-05-20180404	4/4/2018	N	10.9	5.8	< 1.0 U
HP-06	HP-06-20180404	4/4/2018	N	7.4	2.7	< 1.0 U
HP-07	HP-07-20180405	4/5/2018	N	4.6	3.2	0.14 J
HP-08	HP-08-20180405	4/5/2018	N	0.30 J	0.34 J	< 1.0 U
HP-16D	HP-16D-WG-20210803	8/3/2021	N	179	13.2	0.29 J
HP-17D	HP-17D-WG-20210803	8/3/2021	N	398	134	0.89 J
HP-17S	HP-17S-WG-20210803	8/3/2021	N	321	120	0.70 J
HP-18D	HP-18D-WG-20210803	8/3/2021	N	0.33 J	< 1.0 U	< 1.0 U
HP-19	HP-19-WG-20210804	8/4/2021	N	0.35 J	0.24 J	< 1.0 U
HP-20	HP-20-WG-20210805	8/5/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
HP-21	HP-21-WG-202109	9/20/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
HP-22	HP-22-WG-202109	9/21/2021	N	27.4	4.6	< 1.0 U
HP-23	HP-23-WG-202109	9/22/2021	N	97.9	9.9	< 1.0 U
HP-23	HP-23-WG-20210923	9/23/2021	N	45.6	5.0	< 1.0 U
HP-24	HP-24-WG-202109	9/22/2021	N	0.90 J	0.21 J	< 1.0 U
HP-24	HP-24-WG-20210923	9/23/2021	N	1.8	0.36 J,B	< 1.0 U
HP-25	HP-25-WG-202109	9/22/2021	N	127	11.6	< 1.0 U
HP-26	HP-26-WG-202109	9/22/2021	N	321	25.4	< 1.0 U
HP-27	HP-27-WG-202109	9/22/2021	N	154	3.8	0.34 J
HP-27	HP-27	6/17/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-27	DUP-01-20240617	6/17/2024	FD	< 1.00 U	< 1.00 U	< 1.00 U
HP-28	HP-28	6/18/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-29	HP-29	6/18/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-30	HP-30	6/18/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-31	HP-31	6/18/2024	N	16.6	3.36	< 1.00 U
HP-32	HP-32	6/20/2024	N	0.477 J	< 1.00 U	< 1.00 U
HP-33	HP-33	6/21/2024	N	< 1.00 U	< 1.00 U	< 1.00
HP-34	HP-34	6/21/2024	N	< 2.00 U	< 2.00 U	< 2.00
HP-35	HP-35	6/20/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-35	DUP-03-20240620	6/20/2024	FD	< 1.00 U	< 1.00 U	< 1.00 U
HP-36	HP-36	6/20/2024	N	6.59	1.68	< 1.00 U
HP-37	HP-37	6/20/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-38	HP-38	6/19/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-39	HP-39	6/19/2024	N	< 1.00 U	< 1.00 U	< 1.00 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
HP-39	DUP-02-20240619	6/19/2024	FD	< 1.00 U	< 1.00 U	< 1.00 U
HP-40	HP-40	6/19/2024	N	28.5	4.22	< 1.00 U
HP-41	HP-41	6/20/2024	N	< 1.00 U	< 1.00 U	< 1.00 U
HP-50	HP-50-202408	8/7/2024	N	12.1	< 1.00 U	< 1.00 U
ITMW-1	ITMW-1-19891101-FS	11/1/1989	N	< ND		< ND
ITMW-1	ITMW-1-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-1	ITMW-1-19931101-FS	11/1/1993	N	10		< ND
ITMW-1	ITMW-1-19961201-FS	12/1/1996	N	21		< ND
ITMW-1	ITMW-1-19990201-FS	2/1/1999	N	37	< ND	< ND
ITMW-1	ITMW-1-20000301-FS	3/1/2000	N	125	8	< ND
ITMW-1	MW-1-20000919-FS	9/19/2000	N	30.7	7.45	< 10 U
ITMW-1	MW-1-20010327-FS	3/27/2001	N	30	6	< 10 U
ITMW-1	MW-1-20010911-FS	9/11/2001	N	27	9	< 10 U
ITMW-1	ITMW-1-20020910-FS	9/10/2002	N	35	9	< 10 U
ITMW-1	ITMW-1-20030227-FS	2/27/2003	N	29.6	7.14	< 10 U
ITMW-1	ITMW-1-20030923-FS	9/23/2003	N	25	12	< 10 U
ITMW-1	ITMW-1-20040413-FS	4/13/2004	N	42.2	11.1	< 10 U
ITMW-1	ITMW-1-20040921-FS	9/21/2004	N	26	16.7	< 10 U
ITMW-1	ITMW-1-20040921-FD	9/21/2004	FD	26.1	15.8	< 10 U
ITMW-1	ITMW-1-20050928-FS	9/28/2005	N	34.7	11.3	< 10 U
ITMW-1	ITMW-1-20061014-FS	10/14/2006	N	20	11	< 10 UJ
ITMW-1	ITMW-1-20070920-FS	9/20/2007	N	18	13	< 10 U
ITMW-1	ITMW-1-20081209-FS	12/9/2008	N	14	7.3	< 5 U
ITMW-1	ITMW-1-20111027-FS	10/27/2011	N	17	8.2	< 5 U
ITMW-1	ITMW-1-20120418-FS	4/18/2012	N	32	13	< 5 U
ITMW-1	ITMW-1-20121019	10/19/2012	N	10	8.3	< 2.0 U
ITMW-1	IT MW-1-20130424	4/24/2013	N	26	9.1	< 2.0 U
ITMW-1	ITMW-1-101513	10/15/2013	N	7.2	5.8	< 2.0 U
ITMW-1	ITMW-1-201403	3/8/2014	N	23.4	8.9	< 2.0 U
ITMW-1	ITMW-1-201405	5/13/2014	N	21.3	8.7	< 2.0 U
ITMW-1	ITMW-1-201407	7/30/2014	N	8.9	5.4	< 2.0 U
ITMW-1	DUP-5-201407	7/30/2014	FD	9.2	5.7	< 2.0 U
ITMW-1	ITMW-1-201410	10/15/2014	N	6.1	4.5 J	< 2.0 U
ITMW-1	ITMW-1-201501	1/14/2015	N	22.7	9.7	< 1.0 U
ITMW-1	ITMW-1-201504	4/15/2015	N	19.2	9.7	< 1.0 U
ITMW-1	ITMW-1-201507	7/22/2015	N	10.5	5.3	< 1.0 U
ITMW-1	ITMW-1-201510	10/7/2015	N	7.8	4.4	< 1.0 U
ITMW-1	ITMW-1-201601	1/13/2016	N	19.9	8.9	< 1.0 U
ITMW-1	ITMW-1-201605	5/5/2016	N	17.2	8.0	< 1.0 U
ITMW-1	DUP-05-201605	5/5/2016	FD	17.6	8.1	< 1.0 U
ITMW-1	ITMW-1-201611	11/10/2016	N	7.6	3.1	< 1.0 U
ITMW-1	DUP-04-201611	11/10/2016	FD	7.0	3.4	< 1.0 U
ITMW-1	ITMW-1-201710	10/25/2017	N	8.9	3.8	< 1.0 U
ITMW-1	ITMW-1-201811	11/15/2018	N	12.7	5.4	< 1.0 U
ITMW-1R	ITMW-1R-201910	10/23/2019	N	11.4	8.9	0.14 J
ITMW-1R	ITMW-1R-202010	10/8/2020	N	28.4	45.9	< 1.0 U
ITMW-1R	ITMW-1R-202110	10/20/2021	N	31.1	51.1	< 1.0 U
ITMW-1R	ITMW-1R-202210	10/19/2022	N	18.6	38.8	< 1.0 U
ITMW-1R	ITMW-1R-202310	10/18/2023	N	22.3	31.0	< 1.0 U
ITMW-1R	ITMW-1R-202410	10/10/2024	N	17	20	< 1.0 U
ITMW-2	ITMW-2-19891001-FS	10/1/1989	N	< ND		< ND
ITMW-2	ITMW-2-19891101-FS	11/1/1989	N	< ND		< ND
ITMW-2	ITMW-2-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-2	ITMW-2 DUP-19900101-FD	1/1/1990	FD	< ND		< ND
ITMW-2	ITMW-2-19910301-FS	3/1/1991	N	< ND		< ND
ITMW-2	ITMW-2-19931101-FS	11/1/1993	N	4		< ND
ITMW-2	ITMW-2-19961201-FS	12/1/1996	N	3.4		< ND
ITMW-2	ITMW-2-20000301-FS	3/1/2000	N	< ND	< ND	< ND
ITMW-2	MW-2-20000919-FS	9/19/2000	N	< 5 U	< 5 U	< 10 U
ITMW-2	MW-2-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
ITMW-2	MW-2-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20020911-FS	9/11/2002	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20030923-FS	9/23/2003	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20040413-FS	4/13/2004	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2 DUP-1-20040413-FD	4/13/2004	FD	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20040921-FS	9/21/2004	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2 DUP1-20040921-FD	9/21/2004	FD	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20061014-FS	10/14/2006	N	4 J	< 5 U	< 10 U
ITMW-2	ITMW-2-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U
ITMW-2	ITMW-2-20081209-FS	12/9/2008	N	< 5 U	< 5 U	< 5 U
ITMW-2	ITMW-2-20101103-FS	11/3/2010	N	< 5 U	< 5 U	< 5 U
ITMW-2	ITMW-2-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
ITMW-2	ITMW-2-20120417-FS	4/17/2012	N	< 5 U	< 5 U	< 5 U
ITMW-2	ITMW-2-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-2	ITMW-2-20130424	4/24/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-2	ITMW-2-101413	10/14/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-2	ITMW-2-201403	3/6/2014	N	0.23 J	0.40 J	< 2.0 U
ITMW-2	DUP-1-201403	3/6/2014	FD	0.28 J	0.51 J	< 2.0 U
ITMW-2	ITMW-2-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-2	ITMW-2-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-2	ITMW-2-201410	10/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-2	ITMW-2-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2	ITMW-2-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2	ITMW-2-201507	7/22/2015	N	0.24 J	0.26 J	< 1.0 U
ITMW-2	ITMW-2-201510	10/6/2015	N	0.22 J	0.21 J	< 1.0 U
ITMW-2	ITMW-2-201601	1/12/2016	N	0.21 J	0.42 J	< 1.0 U
ITMW-2	ITMW-2-201605	5/5/2016	N	0.25 J	0.29 J	< 1.0 U
ITMW-2	ITMW-2-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2	ITMW-2-201710	10/25/2017	N	< 1.0 U	0.29 J	< 1.0 U
ITMW-2	ITMW-2-201811	11/13/2018	N	0.71 J	0.57 J	< 1.0 U
ITMW-2R	ITMW-2R-201910	10/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2R	ITMW-2R-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2R	DUP-09-202010	10/8/2020	FD	0.32 J	< 1.0 U	< 1.0 U
ITMW-2R	ITMW-2R-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-2R	ITMW-2R-202210	10/18/2022	N	0.34 J	< 1.0 U	< 1.0 U
ITMW-2R	ITMW-2R-202310	10/17/2023	N	1.6	< 1.0 U	< 1.0 U
ITMW-2R	ITMW-2R-202410	10/8/2024	N	2.4	< 1.0 U	< 1.0 U
ITMW-3	ITMW-3-19891001-FS	10/1/1989	N	< ND		< ND
ITMW-3	ITMW-3-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-3	ITMW-3-19931101-FS	11/1/1993	N	3		< ND
ITMW-3	ITMW-3-19961201-FS	12/1/1996	N	1.7		< ND
ITMW-3	ITMW-3-19990201-FS	2/1/1999	N	< ND	< ND	< ND
ITMW-3	ITMW-3-20000301-FS	3/1/2000	N	< ND	< ND	< ND
ITMW-3	ITMW-3 DUP-20000301-FD	3/1/2000	FD	< ND	< ND	< ND
ITMW-3	MW-3-20000919-FS	9/19/2000	N	< 5 U	< 5 U	< 10 U
ITMW-3	MW-3-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
ITMW-3	MW-3-20010911-FS	9/11/2001	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20020910-FS	9/10/2002	N	15	< 5 U	< 10 U
ITMW-3	ITMW-3-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20030923-FS	9/23/2003	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040413-FS	4/13/2004	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20040921-FS	9/21/2004	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20050928-FS	9/28/2005	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20061014-FS	10/14/2006	N	< 5 U	< 5 U	< 10 UJ
ITMW-3	ITMW-3-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U
ITMW-3	ITMW-3-20081209-FS	12/9/2008	N	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20101104-FS	11/4/2010	N	190	3.9 J	< 5 U
ITMW-3	ITMW-3-20111027-FS	10/27/2011	N	4.1 J	< 5 U	< 5 U
ITMW-3	ITMW-3-20120417-FS	4/17/2012	N	< 5 U	< 5 U	< 5 U
ITMW-3	ITMW-3-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-3	ITMW-3-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-3	ITMW-3-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-4	ITMW-4-19891001-FS	10/1/1989	N	< ND		< ND
ITMW-4	ITMW-4-19891101-FS	11/1/1989	N	< ND		< ND
ITMW-4	ITMW-4-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-4	ITMW-4-19931101-FS	11/1/1993	N	< ND		< ND
ITMW-4	ITMW-4-19961201-FS	12/1/1996	N	75		< ND
ITMW-4	ITMW-4-19990201-FS	2/1/1999	N	93	54	< ND
ITMW-4	ITMW-4-20000301-FS	3/1/2000	N	22	16	< ND
ITMW-4	MW-4-20000920-FS	9/20/2000	N	13.9	10.6	< 10 U
ITMW-4	MW-4-20010328-FS	3/28/2001	N	9	< 5 U	< 10 U
ITMW-4	MW-4-20010913-FS	9/13/2001	N	6	8	< 10 U
ITMW-4	ITMW-4-20020910-FS	9/10/2002	N	9	< 5 U	< 10 U
ITMW-4	ITMW-4-20030228-FS	2/28/2003	N	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20030923-FS	9/23/2003	N	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040414-FS	4/14/2004	N	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20050927-FS	9/27/2005	N	< 5 U	< 5 U	< 10 U
ITMW-4	ITMW-4-20061011-FS	10/11/2006	N	6	8	< 10 U
ITMW-4	ITMW-4-20070920-FS	9/20/2007	N	5 J	5 J	< 10 U
ITMW-4	ITMW-4-20081209-FS	12/9/2008	N	< 5 U	3.2 J	< 5 U
ITMW-4	ITMW-4-20111025-FS	10/25/2011	N	4.8 J	5.1	< 5 U
ITMW-4	ITMW-4-20121017	10/17/2012	N	3.3 J	4.5 J	7.9
ITMW-4	ITMW-4-101413	10/14/2013	N	3.7 J	6.1	< 2.0 U
ITMW-4	ITMW-4-201403	3/6/2014	N	1.4 J	2.0 J	0.19 J
ITMW-4	ITMW-4-201405	5/13/2014	N	2.0 J	2.1 J	0.18 J
ITMW-4	ITMW-4-201407	7/30/2014	N	2.8 J	4.6 J	< 2.0 U
ITMW-4	ITMW-4-201410	10/16/2014	N	3.4 J	4.9 J	< 2.0 U
ITMW-4	ITMW-4-201501	1/13/2015	N	1.7	2.3	< 1.0 U
ITMW-4	ITMW-4-201504	4/14/2015	N	1.6	2.6	0.84 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-4	ITMW-4-201507	7/22/2015	N	2.0	2.6	0.17 J
ITMW-4	ITMW-4-201510	10/7/2015	N	2.3	2.8	0.23 J
ITMW-4	ITMW-4-201601	1/12/2016	N	1.5	2.5	< 1.0 U
ITMW-4	ITMW-4-201605	5/5/2016	N	1.3	< 1.0 U	0.15 J
ITMW-4	ITMW-4-202005	5/13/2020	N	12.4	< 1.0 U	< 1.0 U
ITMW-5	ITMW-5-19891001-FS	10/1/1989	N	< ND		< ND
ITMW-5	ITMW-5-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-5	ITMW-5-19961201-FS	12/1/1996	N	21		< ND
ITMW-5	ITMW-5-19990201-FS	2/1/1999	N	86	39	< ND
ITMW-5	ITMW-5-20000301-FS	3/1/2000	N	73	59	< ND
ITMW-5	MW-5-20000920-FS	9/20/2000	N	85	64.4	< 10 U
ITMW-5	MW-5-20010328-FS	3/28/2001	N	100	46	< 10 U
ITMW-5	MW-5-20010913-FS	9/13/2001	N	72	64	< 10 U
ITMW-5	ITMW-5-20020910-FS	9/10/2002	N	108	72	< 10 U
ITMW-5	ITMW-5-20030228-FS	2/28/2003	N	90.4	68.7	< 10 U
ITMW-5	ITMW-5-20030924-FS	9/24/2003	N	97.3	73.7	< 10 U
ITMW-5	ITMW-5-20040414-FS	4/14/2004	N	83.9	55.4	< 10 U
ITMW-5	ITMW-5-20040922-FS	9/22/2004	N	105	75.8	< 10 U
ITMW-5	ITMW-5-20050406-FS	4/6/2005	N	93.2	72.6	< 10 U
ITMW-5	DUP-040605-20050406-FD	4/6/2005	FD	87	71	< 10 U
ITMW-5	ITMW-5-20050928-FS	9/28/2005	N	79	53.5	< 10 U
ITMW-5	DUP-1-20050928-FD	9/28/2005	FD	82.1	54.4	< 10 U
ITMW-5	ITMW-5-20060314-FS	3/14/2006	N	92	66.1	< 10 U
ITMW-5	DUP-1-20060314-FD	3/14/2006	FD	98.4	66.1	< 10 U
ITMW-5	ITMW-5-20061010-FS	10/10/2006	N	110	51	4 J
ITMW-5	ITMW-5-20070418-FS	4/18/2007	N	115	39.3	< 10 U
ITMW-5	ITMW-5-20070920-FS	9/20/2007	N	120	49	4 J
ITMW-5	ITMW-5-20080429-FS	4/29/2008	N	120 0	43 0	< 10 U
ITMW-5	ITMW-5-20081209-FS	12/9/2008	N	200 E	42	< 5 U
ITMW-5	ITMW-5-20090427-FS	4/27/2009	N	160	34	< 5 U
ITMW-5	ITMW-5-20100511-FS	5/11/2010	N	190 EF	40	< 5 U
ITMW-5	ITMW-5-20101106-FS	11/6/2010	N	350	50	< 5 U
ITMW-5	ITMW-5-20110322-FS	3/22/2011	N	370	39	< 5 U
ITMW-5	ITMW-5-20111025-FS	10/25/2011	N	150	35	< 5 U
ITMW-5	ITMW-5-20120417-FS	4/17/2012	N	290	26	< 5 U
ITMW-5	ITMW-5-20121018	10/18/2012	N	260	33	0.64 J
ITMW-5	ITMW-5-20130425	4/25/2013	N	220	20	0.50 J
ITMW-5	ITMW-5-101613	10/16/2013	N	260	27	0.55 J
ITMW-5	ITMW-5-201611	11/10/2016	N	507	38.9	2.8 J
ITMW-5	DUP-06-201611	11/10/2016	FD	441	33.5	1.5 J
ITMW-5	ITMW-5-201704	4/28/2017	N	608	30.7	0.93 J
ITMW-5	DUP-06-201704	4/28/2017	FD	664	27.8	0.82 J
ITMW-5	ITMW-5-201710	10/25/2017	N	1470	38.2	1.6
ITMW-5	ITMW-5-201804	4/19/2018	N	1590	34.2	1.4
ITMW-5	ITMW-5-201811	11/15/2018	N	2250	36.9	2.0
ITMW-5	ITMW-5-201904	4/24/2019	N	3660	37.0	1.6
ITMW-5	ITMW-5-201910	10/24/2019	N	3700	42.1	2.0
ITMW-5	ITMW-5-202005	5/13/2020	N	3050	30.3	1.3
ITMW-5	ITMW-5-202010	10/8/2020	N	2560	29.5	1.4
ITMW-5	ITMW-5-202104	4/14/2021	N	2170	22.1	0.81 J
ITMW-5	ITMW-5-202110	10/21/2021	N	2420	27.9	1.1
ITMW-5	ITMW-5-202204	4/14/2022	N	1330	25.8	< 1.0 U
ITMW-5	ITMW-5-202210	10/20/2022	N	2710	27.6	1.1
ITMW-5	ITMW-5-202304	4/19/2023	N	1710	41.7	0.57 J
ITMW-5	ITMW-5-202310	10/19/2023	N	2690	22.6	0.90 J
ITMW-5	ITMW-5-202404	4/16/2024	N	2270	23.1	1.0
ITMW-5	ITMW-5-202410	10/11/2024	N	2300	19 J	< 25 U
ITMW-6	ITMW-6-19891001-FS	10/1/1989	N	< ND		< ND
ITMW-6	ITMW-6-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-6	ITMW-6-19961201-FS	12/1/1996	N	6.8		< ND
ITMW-6	ITMW-6-19970501-FS	5/1/1997	N	7	< ND	< ND
ITMW-6	ITMW-6-19990201-FS	2/1/1999	N	25	< ND	< ND
ITMW-6	ITMW-6 DUP-19990201-FS	2/1/1999	FD	6	< ND	< ND
ITMW-6	ITMW-6-20000301-FS	3/1/2000	N	< ND	< ND	< ND
ITMW-6	MW-6-20000920-FS	9/20/2000	N	< 5 U	< 5 U	< 10 U
ITMW-6	MW-6-20010328-FS	3/28/2001	N	< 5 U	< 5 U	< 10 U
ITMW-6	MW-6-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20020910-FS	9/10/2002	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6 DUP-1-20020910-FD	9/10/2002	FD	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20030924-FS	9/24/2003	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040414-FS	4/14/2004	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20050928-FS	9/28/2005	N	< 5 U	< 5 U	< 10 U
ITMW-6	ITMW-6-20061011-FS	10/11/2006	N	< 5 U	4 J	< 10 U
ITMW-6	ITMW-6-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-6	ITMW-6-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
ITMW-6	ITMW-6-20091028-FS	10/28/2009	N	< 5 U	2.1 J	< 5 U
ITMW-6	ITMW-6-20100510-FS	5/10/2010	N	< 5 U	1.9 J	< 5 U
ITMW-6	DUP-102511-20111025-FD	10/25/2011	FD	< 5 U	2.7 J	< 5 U
ITMW-6	ITMW-6-20111025-FS	10/25/2011	N	< 5 U	2.4 J	< 5 U
ITMW-6	ITMW-6-20120417-FS	4/17/2012	N	< 5 U	2.9 J	< 5 U
ITMW-6	ITMW-6-20121017	10/17/2012	N	< 5.0 U	3.1 J	< 2.0 U
ITMW-6	ITMW-6-20130422	4/22/2013	N	< 5.0 U	2.1 J	0.33 J
ITMW-6	ITWM-6-101413	10/14/2013	N	3.4 J	5.5	0.18 J
ITMW-6	ITMW-6-201403	3/6/2014	N	2.7 J	4.9 J	0.18 J
ITMW-6	ITMW-6-201405	5/13/2014	N	3.6 J	5.3	0.17 J
ITMW-6	ITMW-6-201407	7/30/2014	N	4.4 J	6.7	< 2.0 U
ITMW-6	ITMW-6-201410	10/15/2014	N	3.1 J	5.2	< 2.0 U
ITMW-6	ITMW-6-201501	1/13/2015	N	3.7	5.7	< 1.0 U
ITMW-6	ITMW-6-201504	4/14/2015	N	3.7	5.3 J	< 1.0 U
ITMW-6	ITMW-6-201507	7/22/2015	N	4.7	6.3	0.31 J
ITMW-6	ITMW-6-201510	10/7/2015	N	3.1	5.5	0.21 J
ITMW-6	ITMW-6-201601	1/12/2016	N	4.2	6.2	0.32 J
ITMW-6	ITMW-6-201605	5/5/2016	N	4.4	5.3	0.22 J
ITMW-6	ITMW-6-202005	5/13/2020	N	2070	19.5	0.99 J
ITMW-6	ITMW-6-202010	10/8/2020	N	2110	20.6	1.4
ITMW-6	ITMW-6-202110	10/21/2021	N	1980	18.2	1.1
ITMW-6	ITMW-6-202310	10/19/2023	N	1630	11.3	0.81 J
ITMW-6	ITMW-6-202410	10/11/2024	N	1300 J	12	< 5.0 U
ITMW-7	ITMW-7-19891101-FS	11/1/1989	N	< ND		< ND
ITMW-7	ITMW-7-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-7	ITMW-7-19961201-FS	12/1/1996	N	290		3
ITMW-7	ITMW-7-19970501-FS	5/1/1997	N	380	180	< ND
ITMW-7	ITMW-7-19990201-FS	2/1/1999	N	< ND	< ND	< ND
ITMW-7	ITMW-7-19990601-FS	6/1/1999	N	320	144	< ND
ITMW-7	ITMW-7 DUP-19990601-FD	6/1/1999	FD	300	140	< ND
ITMW-7	ITMW-7-20000301-FS	3/1/2000	N	262	100	< ND
ITMW-7	ITMW-7 DUP-20000301-FS	3/1/2000	FD	207	92	< ND
ITMW-7	MW-7-20000919-FS	9/19/2000	N	207	100	< 10 U
ITMW-7	ITMW-7 DUP-3-20000921-FD	9/21/2000	FD	109	< 5 U	< 10 U
ITMW-7	MW-7-20010328-FS	3/28/2001	N	161	66	< 10 U
ITMW-7	MW-7-20010913-FS	9/13/2001	N	139	68	< 10 U
ITMW-7	ITMW-7-20020910-FS	9/10/2002	N	137	56	< 10 U
ITMW-7	ITMW-7 DUP-2-20020910-FD	9/10/2002	FD	128	54	< 10 U
ITMW-7	ITMW-7-20030227-FS	2/27/2003	N	172	92.5	< 10 U
ITMW-7	ITMW-7-20030924-FS	9/24/2003	N	125	57.3	< 10 U
ITMW-7	ITMW-7-20040414-FS	4/14/2004	N	201	80.7	< 10 U
ITMW-7	ITMW-7-20040922-FS	9/22/2004	N	132	48.4	< 10 U
ITMW-7	ITMW-7-20050407-FS	4/7/2005	N	122	39	< 10 U
ITMW-7	ITMW-7-20050928-FS	9/28/2005	N	100	30.5	< 10 U
ITMW-7	ITMW-7-20060314-FS	3/14/2006	N	153	59.5	< 10 U
ITMW-7	ITMW-7-20061010-FS	10/10/2006	N	140	44	1 J
ITMW-7	ITMW-7-20070417-FS	4/17/2007	N	83	29.4	< 10 U
ITMW-7	ITMW-7-20070921-FS	9/21/2007	N	72	22	< 10 U
ITMW-7	ITMW-7-20080430-FS	4/30/2008	N	70 0	18 0	< 10 U
ITMW-7	MW-7-20081211-FS	12/11/2008	N	66	19	< 5 U
ITMW-7	ITMW-7-20090427-FS	4/27/2009	N	87	26	< 5 U
ITMW-7	ITMW-7-20091028-FS	10/28/2009	N	60	20	< 5 U
ITMW-7	ITMW-7-20100510-FS	5/10/2010	N	73	18	< 5 U
ITMW-7	ITMW-7-20110323-FS	3/23/2011	N	225 EF	93.2	56.5
ITMW-7	ITMW-7-20111025-FS	10/25/2011	N	99	26	< 5 U
ITMW-7	ITMW-7-20120418-FS	4/18/2012	N	100	20	< 5 U
ITMW-7	ITMW-7-20121018	10/18/2012	N	63	17	< 2.0 U
ITMW-7	ITMW-7-20130425	4/25/2013	N	69	16	0.27 J
ITMW-7	ITMW-7-101713	10/17/2013	N	47	12	< 2.0 U
ITMW-7	ITMW-7-201403	3/8/2014	N	37.4	10	0.24 J
ITMW-7	ITMW-7-201405	5/14/2014	N	37.0	11.1	0.22 J
ITMW-7	ITMW-7-201407	7/30/2014	N	36.7	11.2	< 2.0 U
ITMW-7	ITMW-7-201410	10/15/2014	N	33.7	10.3	< 2.0 U
ITMW-7	ITMW-7-201501	1/14/2015	N	34.7	10.5	< 1.0 U
ITMW-7	ITMW-7-201504	4/14/2015	N	29.3	9.2	< 1.0 U
ITMW-7	ITMW-7-201507	7/22/2015	N	26.4	8.3	0.19 J
ITMW-7	ITMW-7-201510	10/8/2015	N	27.6	8.8	0.19 J
ITMW-7	ITMW-7-201601	1/13/2016	N	44.2	13.0	0.23 J
ITMW-7	ITMW-7-201605	5/5/2016	N	33.8	8.7	< 1.0 U
ITMW-7	DUP-06-201605	5/5/2016	FD	33.9	9.0	0.18 J
ITMW-7	ITMW-7-201611	11/10/2016	N	33.2	10	0.26 J
ITMW-7	ITMW-07-201704	4/27/2017	N	29.2	9.3	0.14 J
ITMW-7	ITMW-7-201710	10/25/2017	N	23.4	7.5	0.20 J
ITMW-7	ITMW-7-201804	4/19/2018	N	24.2	8.3	0.13 J
ITMW-7	ITMW-7-201811	11/15/2018	N	22.8	7.3	< 1.0 U

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Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-7	ITMW-7-201904	4/24/2019	N	19.4	6.5	< 1.0 U
ITMW-7	ITMW-7-201910	10/22/2019	N	20.5	6.7	0.13 J
ITMW-7	ITMW-7-202005	5/13/2020	N	14.1	6.3	< 1.0 U
ITMW-7	ITMW-7-202010	10/8/2020	N	16.4	6.4	< 1.0 U
ITMW-7	ITMW-7-202104	4/14/2021	N	17.9	7.3	< 1.0 U
ITMW-7	ITMW-7-202110	10/20/2021	N	17.7	7.3	< 1.0 U
ITMW-7	ITMW-7-202204	4/14/2022	N	16.8	7.1	< 1.0 U
ITMW-7	DUP-08-202204	4/14/2022	FD	20.4	8.4	< 1.0 U
ITMW-7	ITMW-7-202210	10/19/2022	N	18.7	6.6	< 1.0 U
ITMW-7	ITMW-7-202304	4/19/2023	N	21.7	8.4	< 1.0 U
ITMW-7	DUP-08-202304	4/19/2023	FD	20.3	8.1	< 1.0 U
ITMW-7	ITMW-7-202310	10/18/2023	N	16.1	6.2	< 1.0 U
ITMW-7	ITMW-7-202404	4/17/2024	N	11.0	4.4	< 1.0 U
ITMW-7	DUP-10-202404	4/17/2024	FD	11.6	4.4	< 1.0 U
ITMW-7	ITMW-7-202410	10/8/2024	N	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
ITMW-9	ITMW-9-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-9	ITMW-9-19961201-FS	12/1/1996	N	230		< ND
ITMW-9	ITMW-9-19970501-FS	5/1/1997	N	7	< ND	< ND
ITMW-9	ITMW-9-19990201-FS	2/1/1999	N	40	24	< ND
ITMW-9	ITMW-9-20000301-FS	3/1/2000	N	69	45	< ND
ITMW-9	MW-9-20000920-FS	9/20/2000	N	57.3	14.3	< 10 U
ITMW-9	ITMW-9 DUP-2-20000920-FD	9/20/2000	FD	54.8	14	< 10 U
ITMW-9	MW-9-20010328-FS	3/28/2001	N	40	12	< 10 U
ITMW-9	MW-9-20010913-FS	9/13/2001	N	40	12	< 10 U
ITMW-9	ITMW-9-20020910-FS	9/10/2002	N	61	21	< 10 U
ITMW-9	ITMW-9-20030228-FS	2/28/2003	N	54.2	37.2	< 10 U
ITMW-9	ITMW-9-20030923-FS	9/23/2003	N	91	49.5	< 10 U
ITMW-9	ITMW-9 DUP-1-20030923-FD	9/23/2003	FD	97.6	53.9	< 10 U
ITMW-9	ITMW-9-20040414-FS	4/14/2004	N	71.8	38.8	< 10 U
ITMW-9	ITMW-9-20040922-FS	9/22/2004	N	80.7	21.1	< 10 U
ITMW-9	ITMW-9-20050406-FS	4/6/2005	N	79	30.4	< 10 U
ITMW-9	ITMW-9-20050927-FS	9/27/2005	N	98.8	54.6	< 10 U
ITMW-9	ITMW-9-20060314-FS	3/14/2006	N	101	78.7	< 10 U
ITMW-9	ITMW-9-20061011-FS	10/11/2006	N	110	77	6 J
ITMW-9	ITMW-9-20070417-FS	4/17/2007	N	79	39.6	< 10 U
ITMW-9	ITMW-9-20070920-FS	9/20/2007	N	76	26	< 10 U
ITMW-9	ITMW-9-20080428-FS	4/28/2008	N	82 0	37 0	< 10 U
ITMW-9	ITMW-9-20081209-FS	12/9/2008	N	90	62	< 5 U
ITMW-9	ITMW-9-20090427-FS	4/27/2009	N	110	51	< 5 U
ITMW-9	ITMW-9-20091027-FS	10/27/2009	N	120	67	5.7
ITMW-9	DUP-1-20091027-FD	10/27/2009	FD	120	71	6.1
ITMW-9	ITMW-9-20100511-FS	5/11/2010	N	130	38	< 5 U
ITMW-9	ITMW-9-20110322-FS	3/22/2011	N	120	48	2.4 J
ITMW-9	ITMW-9-20111025-FS	10/25/2011	N	90	57	< 5 U
ITMW-9	ITMW-9-20120417-FS	4/17/2012	N	150	50	2.5 J
ITMW-9	ITMW-9-20121018	10/18/2012	N	120	53	5.2
ITMW-9	ITMW-9-20130424	4/24/2013	N	140	44	1.6 J
ITMW-9	ITMW-9-101713	10/17/2013	N	83	42	16
ITMW-9	ITMW-9-201403	3/8/2014	N	112	40.4	0.41 J
ITMW-9	ITMW-9-201405	5/14/2014	N	113	42.2	0.64 J
ITMW-9	ITMW-9-201407	7/30/2014	N	141	44.4	0.53 J
ITMW-9	DUP-6-201407	7/30/2014	FD	143	43.9	0.54 J
ITMW-9	ITMW-9-201410	10/15/2014	N	76.9	39.1	1.8 J
ITMW-9	DUP-02-201410	10/15/2014	FD	75.3	38.8	1.7 J
ITMW-9	ITMW-9-201501	1/13/2015	N	89.6	39.1	1.4
ITMW-9	DUP-02-201501	1/13/2015	FD	89.4	39.1	1.4
ITMW-9	ITMW-9-201504	4/15/2015	N	100	35.4	< 1.0 U
ITMW-9	ITMW-9-201507	7/21/2015	N	142	35.5	0.40 J
ITMW-9	ITMW-9-201510	10/7/2015	N	55.6	26.6	1.0
ITMW-9	DUP-09-201510	10/7/2015	FD	55.2	26.8	1.1
ITMW-9	ITMW-9-201601	1/13/2016	N	92.4	35.3	1.1
ITMW-9	DUP-04-201601	1/13/2016	FD	91.3	34.1	1.1
ITMW-9	ITMW-9-201605	5/5/2016	N	97.3	31.6	0.48 J
ITMW-9	ITMW-9-201611	11/8/2016	N	2550	73.0 J	0.17 J
ITMW-9	ITMW-9-201612	12/14/2016	N	193	40.1	1
ITMW-9	ITMW-9-201710	10/25/2017	N	797	60.8	1.7
ITMW-9	ITMW-9-201811	11/15/2018	N	1390	77.1	2.0
ITMW-9	ITMW-9-201910	10/23/2019	N	2720	96.3	2.0
ITMW-9	DUP-07-201910	10/23/2019	FD	2810	95.0	2.0
ITMW-9	ITMW-9-202005	5/13/2020	N	1900	72.5	1.4
ITMW-9	ITMW-9-202010	10/7/2020	N	1770	67.6	1.2
ITMW-9	ITMW-9-202104	4/13/2021	N	3060	87.6	1.7
ITMW-9	ITMW-9-202110	10/21/2021	N	3620	101	2.1
ITMW-9	ITMW-9-202204	4/14/2022	N	2090	81.9	2.2
ITMW-9	ITMW-9-202210_3912	10/21/2022	N	802	39.3	0.91 J
ITMW-9	ITMW-9-202304	4/19/2023	N	3000	19.2	0.78 J

RAMBOLL

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-9	ITMW-9-202310	10/19/2023	N	4190	92.0	2.0
ITMW-9	ITMW-9-202404	4/16/2024	N	47.6 J	75.9	2.0
ITMW-9	ITMW-9-202410	10/11/2024	N	3400	75	< 25 U
ITMW-10	ITMW-10-19900101-FS	1/1/1990	N	< ND		< ND
ITMW-10	ITMW-10-19961201-FS	12/1/1996	N	4		< ND
ITMW-10	ITMW-10-19990201-FS	2/1/1999	N	25	13	< ND
ITMW-10	ITMW-10-20000301-FS	3/1/2000	N	23	17	< ND
ITMW-10	MW-10-20000920-FS	9/20/2000	N	18.1	15.9	< 10 U
ITMW-10	MW-10-20010328-FS	3/28/2001	N	40	21	< 10 U
ITMW-10	MW-10-20010913-FS	9/13/2001	N	29	28	< 10 U
ITMW-10	MW-10 DUP-20010913-FD	9/13/2001	FD	30	27	< 10 U
ITMW-10	ITMW-10-20020910-FS	9/10/2002	N	55	38	< 10 U
ITMW-10	ITMW-10-20030228-FS	2/28/2003	N	57.6	50.9	< 10 U
ITMW-10	MW-10-20030716-FS	7/16/2003	N	55.3	49.2	< 10 U
ITMW-10	ITMW-10-20030923-FS	9/23/2003	N	65.9	56.5	< 10 U
ITMW-10	ITMW-10-20040414-FS	4/14/2004	N	80	57.4	< 10 U
ITMW-10	MW-10-20040922-FS	9/22/2004	N	59.6	50	< 10 U
ITMW-10	ITMW-10-20050406-FS	4/6/2005	N	72.1	57.7	< 10 U
ITMW-10	ITMW-10-20050928-FS	9/28/2005	N	57.6	41.6	< 10 U
ITMW-10	ITMW-10-20060314-FS	3/14/2006	N	82	67.2	< 10 U
ITMW-10	ITMW-10-20061010-FS	10/10/2006	N	88	54	5 J
ITMW-10	ITMW-10-20070417-FS	4/17/2007	N	76	52.4	< 10 U
ITMW-10	ITMW-10-20070920-FS	9/20/2007	N	67	48	5 J
ITMW-10	ITMW-10-20080428-FS	4/28/2008	N	61 0	46 0	< 10 U
ITMW-10	ITMW-10-20081209-FS	12/9/2008	N	78	50	< 5 U
ITMW-10	ITMW-10-20090427-FS	4/27/2009	N	87	52	4.4 J
ITMW-10	ITMW-10-20091027-FS	10/27/2009	N	110	50	4.2 J
ITMW-10	ITMW-10-20100511-FS	5/11/2010	N	85	46	2.4 J
ITMW-10	ITMW-10-20110322-FS	3/22/2011	N	92	42	2.7 J
ITMW-10	ITMW-10-20111025-FS	10/25/2011	N	94	39	2.5 J
ITMW-10	ITMW-10-20121018	10/18/2012	N	100	37	2.5
ITMW-10	ITMW-10-101513	10/15/2013	N	100	32	3.1
ITMW-10	ITMW-10-201403	3/6/2014	N	166	32.3	1.2 J
ITMW-10	ITMW-10-201405	5/14/2014	N	184	32.4	1.4 J
ITMW-10	ITMW-10-201407	7/30/2014	N	273	38.3	1.8 J
ITMW-10	ITMW-10-201410	10/15/2014	N	243	32.3	1.7 J
ITMW-10	ITMW-10-201501	1/14/2015	N	403	38.9	1.4
ITMW-10	ITMW-10-201504	4/15/2015	N	258	34.8	0.98 J
ITMW-10	DUP-08-201504	4/16/2015	FD	303	36.1	1.2
ITMW-10	ITMW-10-201507	7/22/2015	N	504	36.2	1.3
ITMW-10	DUP-01-201507	7/22/2015	FD	501	36.7	1.5
ITMW-10	ITMW-10-201510	10/7/2015	N	437	37.5	1.5
ITMW-10	DUP-04-201510	10/7/2015	FD	445	37.9	1.6
ITMW-10	ITMW-10-201601	1/13/2016	N	761	44.4	1.6
ITMW-10	DUP-01-201601	1/13/2016	FD	735	45.5	1.7
ITMW-10	ITMW-10-201605	5/5/2016	N	743	36.6	1.1
ITMW-10	DUP-01-201605	5/5/2016	FD	673	34.0	1.1
ITMW-10	ITMW-10-201611	11/10/2016	N	113	12.5	0.52 J
ITMW-10	ITMW-10-201704	4/28/2017	N	132	18.3	0.71 J
ITMW-10	ITMW-10-201710	10/25/2017	N	72.9	13.3	0.82 J
ITMW-10	ITMW-10-201804	4/19/2018	N	65.4	12.2	0.65 J
ITMW-10	ITMW-10-201811	11/14/2018	N	45.0	10.9	0.77 J
ITMW-10	ITMW-10-201904	4/25/2019	N	60.5	8.1	0.39 J
ITMW-10	DUP-07-201904	4/25/2019	FD	59.4	7.9	0.32 J
ITMW-10	ITMW-10-201910	10/24/2019	N	127	6.3	0.40 J
ITMW-10	ITMW-10-202005	5/13/2020	N	246	6.4	0.33 J
ITMW-10	ITMW-10-202010	10/8/2020	N	286	6.5	0.36 J
ITMW-10	ITMW-10-202110	10/21/2021	N	302	4.4	0.24 J
ITMW-10	ITMW-10-202210_3912	10/21/2022	N	326	5.7	0.29 J
ITMW-10	ITMW-10-202310	10/19/2023	N	344	5.5	< 1.0 U
ITMW-10	ITMW-10-202410	10/11/2024	N	390	4.8	< 2.0 U
ITMW-11	ITMW-11-19900101-FS	1/1/1990	N	19000		180
ITMW-11	ITMW-11-19901101-FS	11/1/1990	N	4700		93
ITMW-11	ITMW-11-19910201-FS	2/1/1991	N	3400		< ND
ITMW-11	ITMW-11-19931101-FS	11/1/1993	N	2300		43
ITMW-11	ITMW-11-19961201-FS	12/1/1996	N	510		< ND
ITMW-11	ITMW-11-19990201-FS	2/1/1999	N	650	10	< ND
ITMW-11	ITMW-11-20000301-FS	3/1/2000	N	3370	206	< ND
ITMW-11	MW-11-20000919-FS	9/19/2000	N	8030	327	11.7
ITMW-11	MW-11-20010327-FS	3/27/2001	N	7000	200	< 10 U
ITMW-11	MW-11-20010913-FS	9/13/2001	N	6000	183	< 10 U
ITMW-11	MW-11-20011120-FS	11/20/2001	N	< 5 U	< 5 U	< 10 U
ITMW-11	ITMW-11L-20020909-FS	9/9/2002	N	7100	206	10
ITMW-11	ITMW-11T-20020909-FS	9/9/2002	N	800	72	< 10 U
ITMW-11	ITMW-11-20030226-FS	2/26/2003	N	4110	346	58.8
ITMW-11	ITMW-11 DUP-1-20030226-FD	2/26/2003	FD	3630	306	60.7

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-11	ITMW-11-20030924-FS	9/24/2003	N	3990	269	11.8
ITMW-11	ITMW-11-20040413-FS	4/13/2004	N	3160	240	37.8
ITMW-11	ITMW-11-20040921-FS	9/21/2004	N	3450	204	< 10 U
ITMW-11	ITMW-11-20050407-FS	4/7/2005	N	4210	282	66.7
ITMW-11	ITMW-11-20050929-FS	9/29/2005	N	3910	199	18
ITMW-11	ITMW-11-20060316-FS	3/16/2006	N	14600	1290	482
ITMW-11	DUP-2-20060316-FD	3/16/2006	FD	12800	1210	381
ITMW-11	ITMW-11-20061013-FS	10/13/2006	N	8000	340	47
ITMW-11	ITMW-11-20070419-FS	4/19/2007	N	3970	199	< 200 U
ITMW-11	ITMW-11-20070921-FS	9/21/2007	N	7600	180	21
ITMW-11	ITMW-11-20080430-FS	4/30/2008	N	4500 0	210 0	58 0
ITMW-11	ITMW-11-20081210-FS	12/10/2008	N	5800	190	27
ITMW-11	ITMW-11-20090427-FS	4/27/2009	N	2500	200	24
ITMW-11	DUP-1-20100511-FD	5/11/2010	FD	6200	290	28
ITMW-11	ITMW-11-20100511-FS	5/11/2010	N	6200	290	45
ITMW-11	ITMW-11-20110323-FS	3/23/2011	N	9700	520	130
ITMW-11	ITMW-11-20111026-FS	10/26/2011	N	8800	310	16
ITMW-11	ITMW-11-20121019	10/19/2012	N	1400	34	2.4
ITMW-11	ITMW-11-101713	10/17/2013	N	180	8.7	2.9
ITMW-11	ITMW-11-201403	3/8/2014	N	2980	187 M1	22.5
ITMW-11	ITMW-11-201405	5/15/2014	N	1590	99.5	5.5
ITMW-11	DUP-4-201405	5/15/2014	FD	1470	107	4.9
ITMW-11	ITMW-11-201407	7/31/2014	N	7380	156	6.9
ITMW-11	ITMW-11-201410	10/15/2014	N	2050	70.4	3.5
ITMW-11	ITMW-11-20141204	12/4/2014	N	1530	55.0	6.4
ITMW-11	ITMW-11-201501	1/15/2015	N	68.3	9.8	1.9
ITMW-11	ITMW-11-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-11	ITMW-11-201507	7/22/2015	N	33.2	5.9	< 1.0 U
ITMW-11	ITMW-11-201510	10/7/2015	N	721	57.9	0.96 J
ITMW-11	ITMW-11-201601	1/13/2016	N	605	100	13.1
ITMW-11	DUP-03-201601	1/13/2016	FD	2100	199	65.3
ITMW-11	ITMW-11-201605	5/5/2016	N	4630	173	11.2
ITMW-11	ITMW-11-201904	4/25/2019	N	3670	89.9	0.19 J
ITMW-11	DUP-05-201904	4/25/2019	FD	4060	93.2	2.0
ITMW-11	ITMW-11-201910	10/24/2019	N	9.9	0.39 J	< 1.0 U
ITMW-11	ITMW-11-202005	5/13/2020	N	3460	134	< 1.0 U
ITMW-11	ITMW-11-202010	10/8/2020	N	894	18.7	< 1.0 U
ITMW-12	ITMW-12-19901101-FS	11/1/1990	N	2400		140
ITMW-12	ITMW-12-19910201-FS	2/1/1991	N	2100		< ND
ITMW-12	ITMW-12-19931101-FS	11/1/1993	N	2500		35
ITMW-12	ITMW-12-19961201-FS	12/1/1996	N	1200		< ND
ITMW-12	ITMW-12-19990201-FS	2/1/1999	N	3100	480	34
ITMW-12	ITMW-12-20000301-FS	3/1/2000	N	3110	320	19
ITMW-12	MW-12-20000919-FS	9/19/2000	N	3350	180	12
ITMW-12	MW-12-20010327-FS	3/27/2001	N	3900	200	20
ITMW-12	MW-12-20010913-FS	9/13/2001	N	3100	159	< 10 U
ITMW-12	MW-12-20011120-FS	11/20/2001	N	2400	300	20
ITMW-12	ITMW-12-20020911-FS	9/11/2002	N	4200	300	< 10 U
ITMW-12	ITMW-12-20030226-FS	2/26/2003	N	3460	287	< 10 U
ITMW-12	ITMW-12 DUP-2-20030226-FD	2/26/2003	FD	3940	308	< 10 U
ITMW-12	ITMW-12-20030924-FS	9/24/2003	N	2920	242	< 10 U
ITMW-12	ITMW-12-20040413-FS	4/13/2004	N	2410	245	< 10 U
ITMW-12	ITMW-12-20040921-FS	9/21/2004	N	1780	238	< 10 U
ITMW-12	ITMW-12-20050929-FS	9/29/2005	N	2120	273	< 10 U
ITMW-12	ITMW-12-20061013-FS	10/13/2006	N	3500	310	9 J
ITMW-12	ITMW-12-20070921-FS	9/21/2007	N	2100	220	< 10 U
ITMW-12	ITMW-12-20081209-FS	12/9/2008	N	1500	180	< 5 U
ITMW-12	ITMW-12-20111026-FS	10/26/2011	N	1600	230	1.8 J
ITMW-12	ITMW-12-20121019	10/19/2012	N	2500	200	3.6
ITMW-12	ITMW-12-101713	10/17/2013	N	2300	190	3.2
ITMW-12	DUP-ITMW-12-101713	10/17/2013	FD	2300	160	4.1
ITMW-12	ITMW-12-20140308	3/8/2014	N	1910	148	3.4
ITMW-12	DUP-6-20140308	3/8/2014	FD	2400	207	3.4
ITMW-12	ITMW-12-201405	5/14/2014	N	2740	164	14.0
ITMW-12	ITMW-12-201407	7/31/2014	N	2710	173	13.6
ITMW-12	ITMW-12-201410	10/15/2014	N	2570	188	3.5
ITMW-12	DUP-04-201410	10/15/2014	FD	2950	192	3.7
ITMW-12	ITMW-12-20141204	12/4/2014	N	468	51.1	0.88 J
ITMW-12	ITMW-12-201501	1/15/2015	N	57.1	4.2	< 1.0 U
ITMW-12	DUP-04-201501	1/15/2015	FD	59.3	4.8	< 1.0 U
ITMW-12	ITMW-12-201504	4/15/2015	N	2260	149	< 1.0 U
ITMW-12	ITMW-12-201507	7/23/2015	N	652	46.2	0.58 J
ITMW-12	ITMW-12-201510	10/7/2015	N	314	34.6	0.42 J
ITMW-12	ITMW-12-201601	1/13/2016	N	465	70.5	< 1.0 U
ITMW-12	ITMW-12-201605	5/5/2016	N	675	78.9	< 1.0 U
ITMW-12R	ITMW-12R-201910	10/24/2019	N	11800	275	7.1

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-12R	ITMW-12R-202010	10/8/2020	N	11400	284	7.0
ITMW-13	ITMW-13-19901101-FS	11/1/1990	N	34		18
ITMW-13	ITMW-13-19910201-FS	2/1/1991	N	32		35
ITMW-13	ITMW-13-19931101-FS	11/1/1993	N			29
ITMW-13	ITMW-13-19961201-FS	12/1/1996	N	36		36
ITMW-13	ITMW-13-19990201-FS	2/1/1999	N	36	140	48
ITMW-13	ITMW-13-20000301-FS	3/1/2000	N	37	121	53
ITMW-13	MW-13-20000919-FS	9/19/2000	N	22.4	112	50.5
ITMW-13	MW-13-20010328-FS	3/28/2001	N	44	92	40
ITMW-13	MW-13-20010913-FS	9/13/2001	N	35	111	80
ITMW-13	ITMW-13L-20020909-FS	9/9/2002	N	99	110	10
ITMW-13	ITMW-13T-20020909-FS	9/9/2002	N	81	86	20
ITMW-13	ITMW-13-20030226-FS	2/26/2003	N	70.2	85.5	< 10 U
ITMW-13	ITMW-13-20030924-FS	9/24/2003	N	159	130	< 10 U
ITMW-13	ITMW-13-20040413-FS	4/13/2004	N	48.4	87.2	< 10 U
ITMW-13	ITMW-13-20040921-FS	9/21/2004	N	25.5	71.6	< 10 U
ITMW-13	ITMW-13-20050407-FS	4/7/2005	N	71.8	103	< 10 U
ITMW-13	ITMW-13-20050930-FS	9/30/2005	N	72.7	114	17.9
ITMW-13	ITMW-13-20060316-FS	3/16/2006	N	141	187	< 10 U
ITMW-13	ITMW-13-20061014-FS	10/14/2006	N	100	150	17
ITMW-13	ITMW-13-20070418-FS	4/18/2007	N	83.1	78	4.3 J
ITMW-13	ITMW-13-20070920-FS	9/20/2007	N	28	40	< 10 U
ITMW-13	ITMW-13-20080429-FS	4/29/2008	N	69 0	72 0	< 10 U
ITMW-13	ITMW-13-20081210-FS	12/10/2008	N	26	23	< 5 U
ITMW-13	ITMW-13-20090427-FS	4/27/2009	N	79	78	< 5 U
ITMW-13	ITMW-13-20091027-FS	10/27/2009	N	18	22	< 5 U
ITMW-13	ITMW-13-20100512-FS	5/12/2010	N	97	72	< 5 U
ITMW-13	ITMW-13-20110323-FS	3/23/2011	N	130	83	< 5 U
ITMW-13	DUP-102711-20111027-FD	10/27/2011	FD	64	40	< 5 U
ITMW-13	ITMW-13-20111027-FS	10/27/2011	N	65	41	< 5 U
ITMW-13	ITMW-13-20120419-FS	4/19/2012	N	97	63	< 5 U
ITMW-13	ITMW-13-20121018	10/18/2012	N	400	260	1.0 J
ITMW-13	ITMW-13-20130425	4/25/2013	N	86	52	0.14 J
ITMW-13	ITMW-13-101613	10/16/2013	N	150	74	< 2.0 U
ITMW-13	ITMW-13-201403	3/8/2014	N	69.3	45.3	< 2.0 U
ITMW-13	ITMW-13-201405	5/14/2014	N	54.0	34.7	0.17 J
ITMW-13	ITMW-13-201407	7/30/2014	N	36.5	27.5	< 2.0 U
ITMW-13	ITMW-13-2014	10/15/2014	N	40.8	25.9	< 2.0 U
ITMW-13	ITMW-13-201501	1/14/2015	N	45.8	28.5	< 1.0 U
ITMW-13	ITMW-13-201504	4/15/2015	N	43.1	26.5	< 1.0 U
ITMW-13	DUP-03-201504	4/15/2015	FD	47.7	26.7	< 1.0 U
ITMW-13	ITMW-13-201507	7/22/2015	N	37.3	20.1	0.18 J
ITMW-13	DUP-02-201507	7/22/2015	FD	36.1	20.8	0.17 J
ITMW-13	ITMW-13-201510	10/7/2015	N	29.9	17.8	0.20 J
ITMW-13	DUP-01-201510	10/7/2015	FD	25.5	17.6	0.18 J
ITMW-13	ITMW-13-201601	1/13/2016	N	47.6	26.7	0.17 J
ITMW-13	DUP-02-201601	1/13/2016	FD	51.6	26.1	< 1.0 U
ITMW-13	ITMW-13-201605	5/5/2016	N	41.9	20.8	0.17 J
ITMW-14	ITMW-14-19901101-FS	11/1/1990	N	< ND		13
ITMW-14	ITMW-14-19910201-FS	2/1/1991	N	< ND		< ND
ITMW-14	ITMW-14-19931101-FS	11/1/1993	N	6		< ND
ITMW-14	ITMW-14-19961201-FS	12/1/1996	N	< ND		< ND
ITMW-14	ITMW-14-19990201-FS	2/1/1999	N	< ND	29	20
ITMW-14	ITMW-14-20000301-FS	3/1/2000	N	< ND	24	12
ITMW-14	MW-14-20000919-FS	9/19/2000	N	< 5 U	13.6	< 10 U
ITMW-14	MW-14-20010327-FS	3/27/2001	N	< 5 U	24	10
ITMW-14	MW-14-20010913-FS	9/13/2001	N	< 5 U	5	< 10 U
ITMW-14	ITMW-14-20020911-FS	9/11/2002	N	41	6	< 10 U
ITMW-14	ITMW-14-20030226-FS	2/26/2003	N	< 5 U	< 5 U	< 10 U
ITMW-14	ITMW-14-20030924-FS	9/24/2003	N	< 5 U	< 5 U	< 10 U
ITMW-14	ITMW-14-20040413-FS	4/13/2004	N	< 5 U	< 5 U	< 10 U
ITMW-14	ITMW-14-20040921-FS	9/21/2004	N	< 5 U	< 5 U	< 10 U
ITMW-14	ITMW-14-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
ITMW-14	ITMW-14-20061014-FS	10/14/2006	N	4 J	8	< 10 UJ
ITMW-14	ITMW-14-20070921-FS	9/21/2007	N	5 J	9	< 10 U
ITMW-14	ITMW-14-20081210-FS	12/10/2008	N	5.7	9.3	< 5 U
ITMW-14	ITMW-14-20101104-FS	11/4/2010	N	110	14	< 5 U
ITMW-14	ITMW-14-20111027-FS	10/27/2011	N	6.3	11	< 5 U
ITMW-14	ITMW-14-20120419-FS	4/19/2012	N	7.6	16	< 5 U
ITMW-14	ITMW-14-20121019	10/19/2012	N	5.4	11	< 2.0 U
ITMW-14	ITMW-14-20130425	4/25/2013	N	6.8	14	< 2.0 U
ITMW-14	ITMW-14-101613	10/16/2013	N	2.9 J	4.9 J	< 2.0 U
ITMW-14	ITMW-14-201403	3/8/2014	N	6.1	11.9	< 2.0 U
ITMW-14	ITMW-14-201405	5/14/2014	N	5.3	11.3	< 2.0 U
ITMW-14	ITMW-14-201407	7/30/2014	N	4.0 J	9.2	< 2.0 U
ITMW-14	ITMW-14-201410	10/15/2014	N	4.1 J	9.4	< 2.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-14	ITMW-14-201501	1/14/2015	N	4.9	11.5	< 1.0 U
ITMW-14	ITMW-14-201504	4/15/2015	N	5.0	10.7	< 1.0 U
ITMW-14	ITMW-14-201507	7/22/2015	N	4.3	9.6	< 1.0 U
ITMW-14	ITMW-14-201510	10/7/2015	N	4.6	9.8	< 1.0 U
ITMW-14	ITMW-14-201601	1/12/2016	N	4.3	10	< 1.0 U
ITMW-14	ITMW-14-201605	5/5/2016	N	3.9	8.6	< 1.0 U
ITMW-15	ITMW-15-19901101-FS	11/1/1990	N	2500		55
ITMW-15	ITMW-15-19910201-FS	2/1/1991	N	1700		< ND
ITMW-15	ITMW-15-19910415-FS	4/15/1991	N	2000		< ND
ITMW-15	ITMW-15-19910419-FS	4/19/1991	N	2100		< ND
ITMW-15	ITMW-15-19910420-FS	4/20/1991	N	2400		< ND
ITMW-15	ITMW-15-19931101-FS	11/1/1993	N	4300		10
ITMW-15	ITMW-15-19961201-FS	12/1/1996	N	240		< ND
ITMW-15	ITMW-15-19990201-FS	2/1/1999	N	400	120	< ND
ITMW-15	ITMW-15-20000301-FS	3/1/2000	N	339	97	< ND
ITMW-15	MW-15-20000919-FS	9/19/2000	N	362	92.7	< 10 U
ITMW-15	ITMW-15 DUP-1-20000919-FD	9/19/2000	FD	376	91	< 10 U
ITMW-15	MW-15-20010328-FS	3/28/2001	N	290	57	< 10 U
ITMW-15	MW-15-20010913-FS	9/13/2001	N	380	87	< 10 U
ITMW-15	MW-15 DUP-20010913-FD	9/13/2001	FD	370	80	< 10 U
ITMW-15	MW-15-20011120-FS	11/20/2001	N	157	30	< 10 U
ITMW-15	ITMW-15-20020911-FS	9/11/2002	N	320	75	< 10 U
ITMW-15	ITMW-15-20030226-FS	2/26/2003	N	301	98.7	< 10 U
ITMW-15	ITMW-15-20030925-FS	9/25/2003	N	490	91.9	< 10 U
ITMW-15	ITMW-15-20040414-FS	4/14/2004	N	334	126	< 10 U
ITMW-15	ITMW-15-20040921-FS	9/21/2004	N	774	118	< 10 U
ITMW-15	ITMW-15-20050407-FS	4/7/2005	N	685	133	< 10 U
ITMW-15	ITMW-15-20050929-FS	9/29/2005	N	862	189	< 10 U
ITMW-15	ITMW-15-20060316-FS	3/16/2006	N	908	183	12
ITMW-15	ITMW-15-20061013-FS	10/13/2006	N	680	140	7 J
ITMW-15	ITMW-15-20070419-FS	4/19/2007	N	591	110	8.5 J
ITMW-15	ITMW-15-20070921-FS	9/21/2007	N	1000	190	27
ITMW-15	ITMW-15-20080429-FS	4/29/2008	N	100 0	18 0	< 10 U
ITMW-15	ITMW-15-20081210-FS	12/10/2008	N	1100	150	< 5 U
ITMW-15	ITMW-15-20090427-FS	4/27/2009	N	2800	130	17
ITMW-15	ITMW-15-20100511-FS	5/11/2010	N	2800	160	11
ITMW-15	ITMW-15-20111026-FS	10/26/2011	N	1100	74	< 5 U
ITMW-15	ITMW-15-20121019	10/19/2012	N	240	14	1.1 J
ITMW-15	ITMW-15-101613	10/16/2013	N	2800	170	14
ITMW-15	ITMW-15-201403	3/8/2014	N	1630	152	11.6
ITMW-15	DUP2-201405	5/14/2014	FD	899	61.7	4.4
ITMW-15	ITMW-15-201405	5/14/2014	N	729	60.7	4.1
ITMW-15	ITMW-15-201407	7/30/2014	N	1820	82.5	3.1
ITMW-15	DUP-4-201407	7/30/2014	FD	1850	82.8	3.0
ITMW-15	ITMW-15-201410	10/16/2014	N	1490	63.0	2.0
ITMW-15	DUP-05-201410	10/16/2014	FD	1660	66.4	1.8 J
ITMW-15	ITMW-15-20141205	12/5/2014	N	63.0	< 5.0 U	< 2.0 U
ITMW-15	ITMW-15-201501	1/15/2015	N	56.5	2.9	< 1.0 U
ITMW-15	DUP-05-201501	1/15/2015	FD	61.7	3.8	< 1.0 U
ITMW-15	ITMW-15-201504	4/15/2015	N	101	7.5	< 1.0 U
ITMW-15	ITMW-15-201507	7/22/2015	N	110	22.4	1.3
ITMW-15	ITMW-15-201510	10/8/2015	N	38.9	2.4	< 1.0 U
ITMW-15	ITMW-15-201601	1/13/2016	N	797	67.0	4.9
ITMW-15	ITMW-15-201605	5/5/2016	N	659	48.8	5.8
ITMW-16	ITMW-16-19910201-FS	2/1/1991	N	31		< ND
ITMW-16	ITMW-16-19931101-FS	11/1/1993	N	41		7
ITMW-16	ITMW-16-19961201-FS	12/1/1996	N	< ND		< ND
ITMW-16	ITMW-16-19990201-FS	2/1/1999	N	< ND	< ND	< ND
ITMW-16	ITMW-16-20000301-FS	3/1/2000	N	7	< ND	< ND
ITMW-16	MW-16-20000921-FS	9/21/2000	N	< 5 U	< 5 U	< 10 U
ITMW-16	MW-16-20010326-FS	3/26/2001	N	< 5 U	< 5 U	< 10 U
ITMW-16	MW-16-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20020911-FS	9/11/2002	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U
ITMW-16	DUP-2-20050929-FD	9/29/2005	FD	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20061014-FS	10/14/2006	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U
ITMW-16	ITMW-16-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20101106-FS	11/6/2010	N	17	< 5 U	< 5 U
ITMW-16	ITMW-16-20111027-FS	10/27/2011	N	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20120418-FS	4/18/2012	N	< 5 U	< 5 U	< 5 U
ITMW-16	ITMW-16-20121018	10/18/2012	N	< 5.0 U	< 5.0 U	< 2.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-16	ITMW-16-20130424	4/24/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-101613	10/16/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-201403	3/7/2014	N	0.30 J	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-201410	10/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-16	ITMW-16-201501	1/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201507	7/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201601	1/13/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201605	5/5/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-201910	10/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	DUP-10-201910	10/24/2019	FD	< 1.0 U	0.31 J	< 1.0 U
ITMW-16	ITMW-16-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-16	ITMW-16-202404	4/16/2024	N	0.37 J	0.21 J	< 1.0 U
ITMW-16	ITMW-16-202410	10/10/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-17	ITMW-17-19910201-FS	2/1/1991	N	21000		< ND
ITMW-17	ITMW-17-19910415-FS	4/15/1991	N	21000		< ND
ITMW-17	ITMW-17-19910424-FS	4/24/1991	N	21000		< ND
ITMW-17	ITMW-17-19931101-FS	11/1/1993	N	18000		15
ITMW-17	ITMW-17-19961201-FS	12/1/1996	N	9300		< ND
ITMW-17	ITMW-17-19990201-FS	2/1/1999	N	11000	240	< ND
ITMW-17	ITMW-17-20000301-FS	3/1/2000	N	6780	171	< ND
ITMW-17	MW-17-20000919-FS	9/19/2000	N	5500	180	< 10 U
ITMW-17	MW-17-20010105-FS	1/5/2001	N	8310	179	< 10 U
ITMW-17	MW-17-20010328-FS	3/28/2001	N	6700	134	< 10 U
ITMW-17	MW-17-20010913-FS	9/13/2001	N	6300	158	< 10 U
ITMW-17	ITMW-17-20020911-FS	9/11/2002	N	6500	153	< 10 U
ITMW-17	ITMW-17-20030226-FS	2/26/2003	N	4380	134	< 10 U
ITMW-17	ITMW-17-20030925-FS	9/25/2003	N	6090	136	< 10 U
ITMW-17	ITMW-17-20040414-FS	4/14/2004	N	5050	184	< 10 U
ITMW-17	ITWM-17 DUP-2-20040414-FD	4/14/2004	FD	4920	182	< 10 U
ITMW-17	ITMW-17-20040921-FS	9/21/2004	N	5760	156	< 10 U
ITMW-17	ITMW-17-20050407-FS	4/7/2005	N	5750	156	< 10 U
ITMW-17	ITMW-17-20050929-FS	9/29/2005	N	5460	111	< 10 U
ITMW-17	ITMW-17-20060315-FS	3/15/2006	N	15900	211 E	26.3
ITMW-17	ITMW-17-20061012-FS	10/12/2006	N	19000	220	21
ITMW-17	ITMW-17-20070418-FS	4/18/2007	N	13000	298	< 10 U
ITMW-17	ITMW-17-20070921-FS	9/21/2007	N	11000	210	3 J
ITMW-17	ITMW-17-20080429-FS	4/29/2008	N	6200 0	140 0	< 10 U
ITMW-17	ITMW-17-20081210-FS	12/10/2008	N	5600	130	< 5 U
ITMW-17	ITMW-17-20090427-FS	4/27/2009	N	5200	130	< 5 U
ITMW-17	ITMW-17-20100511-FS	5/11/2010	N	4500	85	< 5 U
ITMW-17	ITMW-17-20101104-FS	11/4/2010	N	5400	110	< 5 U
ITMW-17	ITMW-17-20110322-FS	3/22/2011	N	5300	100	< 5 U
ITMW-17	ITMW-17-20111026-FS	10/26/2011	N	4500	98	< 5 U
ITMW-17	ITMW-17-20120419-FS	4/19/2012	N	4700	110	< 5 U
ITMW-17	ITMW-17-20121018	10/19/2012	N	3500	100	0.48 J
ITMW-17	ITMW-17-20130425	4/25/2013	N	5600	130	0.90 J
ITMW-17	ITMW-17-101713	10/17/2013	N	4800	79	< 2.0 U
ITMW-17	ITMW-17-201403	3/8/2014	N	3770	86.1	0.57 J
ITMW-17	DUP-3-201403	3/8/2014	FD	4040	87.3	0.74 J
ITMW-17	ITMW-17-201405	5/15/2014	N	3630	82.9	1.3 J
ITMW-17	DUP-3-201405	5/15/2014	FD	3370	88.5	1.1 J
ITMW-17	ITMW-17-201407	7/30/2014	N	2260	64.7	< 2.0 U
ITMW-17	ITMW-17-201410	10/16/2014	N	3510	70.5	3.2
ITMW-17	ITMW-17-20141205	12/5/2014	N	4630	210 J	7.7
ITMW-17	ITMW-17-201501	1/15/2015	N	3840	110	1.5
ITMW-17	ITMW-17-201504	4/15/2015	N	3920	142	< 1.0 U
ITMW-17	ITMW-17-201507	7/22/2015	N	5350	116	0.51 J
ITMW-17	ITMW-17-201510	10/8/2015	N	3970	77.2	2.5
ITMW-17	ITMW-17-201601	1/13/2016	N	2600	44.7	2.2
ITMW-17	ITMW-17-201605	5/5/2016	N	2720	77.7	< 50.0 U
ITMW-18	ITMW-18-19910201-FS	2/1/1991	N	3700		< ND
ITMW-18	ITMW-18-19931101-FS	11/1/1993	N	4500		6
ITMW-18	ITMW-18-19961201-FS	12/1/1996	N	1600		< ND
ITMW-18	ITMW-18-19990201-FS	2/1/1999	N	6300	480	< ND
ITMW-18	ITMW-18-20000301-FS	3/1/2000	N	3560	401	< ND
ITMW-18	MW-18-20000919-FS	9/19/2000	N	4080	409	< 10 U
ITMW-18	MW-18-20010327-FS	3/27/2001	N	4000	400	< 10 U
ITMW-18	DUPLICATE 2-20010327-FD	3/27/2001	FD	4200	370	< 100 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-18	MW-18-20010911-FS	9/11/2001	N	4100	300	< 10 U
ITMW-18	ITMW-18-20020911-FS	9/11/2002	N	6700	300	< 10 U
ITMW-18	ITMW-18-20030226-FS	2/26/2003	N	5110	290	< 10 U
ITMW-18	ITMW-18-20030924-FS	9/24/2003	N	7700	415	< 10 U
ITMW-18	ITMW-18-20040413-FS	4/13/2004	N	7740	410	< 10 U
ITMW-18	ITMW-18-20040921-FS	9/21/2004	N	7050	380	< 10 U
ITMW-18	ITMW-18-20050408-FS	4/8/2005	N	7080	389	< 10 U
ITMW-18	ITMW-18-20050929-FS	9/29/2005	N	4660	241	< 10 U
ITMW-18	ITMW-18-20060315-FS	3/15/2006	N	5750	373	< 50 U
ITMW-18	ITMW-18-20061013-FS	10/13/2006	N	6600	300	< 10 U
ITMW-18	ITMW-18-20070418-FS	4/18/2007	N	15000	387	< 10 U
ITMW-18	ITMW-18-20070921-FS	9/21/2007	N	8300	310	< 100 U
ITMW-18	ITMW-18-20080430-FS	4/30/2008	N	9000 0	350 0	< 10 U
ITMW-18	ITMW-18-20081209-FS	12/9/2008	N	7200	320	< 5 U
ITMW-18	ITMW-18-20090427-FS	4/27/2009	N	7100	320	< 5 U
ITMW-18	ITMW-18-20091027-FS	10/27/2009	N	7800	360	< 5 U
ITMW-18	ITMW-18-20100511-FS	5/11/2010	N	11000	360	< 5 U
ITMW-18	ITMW-18-20111026-FS	10/26/2011	N	8500	290	< 5 U
ITMW-18	ITMW-18-20120419-FS	4/19/2012	N	9800	360	2.9 J
ITMW-18	ITMW-18-20121019	10/19/2012	N	7600	260	1.2 J
ITMW-18	ITMW-18-20130425	4/25/2013	N	7200	270	0.90 J
ITMW-18	ITMW-18-101713	10/17/2013	N	7000	280	0.64 J
ITMW-18	ITMW-18-201403	3/8/2014	N	9380	285	< 100 U
ITMW-18	DUP-5-201403	3/8/2014	FD	8550	242 J	1.7 J
ITMW-18	ITMW-18-201405	5/15/2014	N	2940	101	< 2.0 U
ITMW-18	DUP-5-201405	5/15/2014	FD	2500	108	< 2.0 U
ITMW-18	ITMW-18-201407	7/31/2014	N	5360	139	1.6 J
ITMW-18	ITMW-18-201410	10/15/2014	N	3540	68.5	< 2.0 U
ITMW-18	ITMW-18-20141204	12/4/2014	N	3690	74.3	< 2.0 U
ITMW-18	ITMW-18-201501	1/15/2015	N	488	26.5	< 1.0 U
ITMW-18	ITMW-18-201504	4/16/2015	N	43.5	1.6	< 1.0 U
ITMW-18	DUP-04-201504	4/16/2015	FD	42.8	1.7	< 1.0 U
ITMW-18	ITMW-18-201507	7/23/2015	N	22.9	0.69 J	< 1.0 U
ITMW-18	DUP-07-201507	7/23/2015	FD	24.7	0.81 J	< 1.0 U
ITMW-18	ITMW-18-201510	10/8/2015	N	12.9	0.40 J	< 1.0 U
ITMW-18	DUP-06-201510	10/8/2015	FD	12.4	0.41 J	< 1.0 U
ITMW-18	ITMW-18-201601	1/13/2016	N	48.8	4.6	< 1.0 U
ITMW-18	ITMW-18-201605	5/5/2016	N	13.9	0.49 J	< 1.0 U
ITMW-18	ITMW-18-201611	11/9/2016	N	10.1	< 1.0 U	< 1.0 U
ITMW-18	ITMW-18-201710	10/26/2017	N	15.0	0.47 J	< 1.0 U
ITMW-18	FD-07-201710	10/26/2017	FD	16.0	0.50 J	< 1.0 U
ITMW-18	ITMW-18-201811	11/14/2018	N	641	55.3	< 1.0 U
ITMW-18	ITMW-18-201910	10/24/2019	N	769	68.4	< 1.0 U
ITMW-18	ITMW-18-202010	10/8/2020	N	1210	94.5	0.43 J
ITMW-18	ITMW-18-202110	10/21/2021	N	2090	192	< 1.0 U
ITMW-18	ITMW-18-202210	10/20/2022	N	2930	183	< 1.0 U
ITMW-18	ITMW-18-202310	10/19/2023	N	2380	215	< 1.0 U
ITMW-18	ITMW-18-202410	10/11/2024	N	2100 J	240 J	< 20 UJ
ITMW-19	ITMW-19-19910201-FS	2/1/1991	N	9900		< ND
ITMW-19	ITMW-19-19931101-FS	11/1/1993	N	27000		7
ITMW-19	ITMW-19-19961201-FS	12/1/1996	N	25000		< ND
ITMW-19	ITMW-19-19990201-FS	2/1/1999	N	33000	150	< ND
ITMW-19	ITMW-19-20000301-FS	3/1/2000	N	33100	128	< ND
ITMW-19	MW-19-20000919-FS	9/19/2000	N	35700	197	< 10 U
ITMW-19	MW-19-20010105-FS	1/5/2001	N	34000	166	< 10 U
ITMW-19	MW-19-20010328-FS	3/28/2001	N	38000	119	< 10 U
ITMW-19	MW-19-20010913-FS	9/13/2001	N	19000	132	< 10 U
ITMW-19	ITMW-19-20020911-FS	9/11/2002	N	27000	167	< 10 U
ITMW-19	ITMW-19-20030226-FS	2/26/2003	N	16200	126	< 10 U
ITMW-19	ITMW-19-20030924-FS	9/24/2003	N	27300	186	< 10 U
ITMW-19	ITMW-19-20040413-FS	4/13/2004	N	19400	186	< 10 U
ITMW-19	ITMW-19-20040921-FS	9/21/2004	N	20000	148	< 10 U
ITMW-19	ITMW-19-20050407-FS	4/7/2005	N	18300	146	< 10 U
ITMW-19	DUP-040705-20050407-FD	4/7/2005	FD	16200	145	< 10 U
ITMW-19	ITMW-19-20050929-FS	9/29/2005	N	25700	144	< 10 U
ITMW-19	ITMW-19-20060315-FS	3/15/2006	N	21300	177	< 100 U
ITMW-19	ITMW-19-20061012-FS	10/12/2006	N	16000	150	2 J
ITMW-19	ITMW-19-20070418-FS	4/18/2007	N	20000	131	< 10 U
ITMW-19	ITMW-19-20070921-FS	9/21/2007	N	19000	110	< 200 U
ITMW-19	ITMW-19-20080429-FS	4/29/2008	N	17000 0	98 0	< 100 U
ITMW-19	ITMW-19-20081210-FS	12/10/2008	N	11000	93	< 5 U
ITMW-19	ITMW-19-20090427-FS	4/27/2009	N	13000	100	< 5 U
ITMW-19	ITMW-19-20100511-FS	5/11/2010	N	19000	130	< 5 U
ITMW-19	DUP-03-20101104-FD	11/4/2010	FD	19000	150	< 5 U
ITMW-19	ITMW-19-20101104-FS	11/4/2010	N	18000	140	< 5 U
ITMW-19	ITMW-19-20110322-FS	3/22/2011	N	16000	110	1 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-19	ITMW-19-20111026-FS	10/26/2011	N	17000	120	< 5 U
ITMW-19	DUP-02-20120419-FD	4/19/2012	FD	15000	110	< 5 U
ITMW-19	ITMW-19-20120419-FS	4/19/2012	N	18000	110	< 5 U
ITMW-19	ITMW-19-20121019	10/19/2012	N	15000	110	0.89 J
ITMW-19	ITMW-19-20130425	4/25/2013	N	13000	110	0.57 J
ITMW-19	ITMW-19-10182013	10/18/2013	N	16000	91 J	< 2.0 U
ITMW-19	DUP-ITMW-19-10182013	10/18/2013	FD	14000	100 J	< 2.0 U
ITMW-19	ITMW-19-201403	3/8/2014	N	8850	66.7	0.57 J
ITMW-19	DUP-4-201403	3/8/2014	FD	8270	60.8 J	< 100 U
ITMW-19	ITMW-19-201405	5/15/2014	N	9780 J	65.8	0.85 J
ITMW-19	DUP-6-201405	5/15/2014	FD	15300 J	67.2	0.87 J
ITMW-19	ITMW-19-201407	7/31/2014	N	13300	85.5	0.96 J
ITMW-19	ITMW-19-201410	10/16/2014	N	12800	76.7	1.9 J
ITMW-19	ITMW-19-20141205	12/5/2014	N	33.5	< 5.0 U	< 2.0 U
ITMW-19	ITMW-19-201501	1/15/2015	N	17.4	< 1.0 U	< 1.0 U
ITMW-19	ITMW-19-201504	4/15/2015	N	594	2.2	< 1.0 U
ITMW-19	ITMW-19-201507	7/23/2015	N	15.2	< 1.0 U	< 1.0 U
ITMW-19	ITMW-19-201510	10/8/2015	N	87.1	0.41 J	< 1.0 U
ITMW-19	ITMW-19-201601	1/13/2016	N	336	1.2	< 1.0 U
ITMW-19	ITMW-19-201605	5/5/2016	N	105	0.28 J	< 1.0 U
ITMW-19	ITMW-19-201611	11/9/2016	N	137	< 1.0 U	< 1.0 U
ITMW-19	ITMW-19-201710	10/26/2017	N	165	0.52 J	< 1.0 U
ITMW-19	ITMW-19-201811	11/15/2018	N	204	1.3	< 1.0 U
ITMW-19	ITMW-19-201910	10/24/2019	N	240 J	1.8	< 1.0 U
ITMW-19	ITMW-19-202010	10/8/2020	N	435	4.8	< 1.0 U
ITMW-19	ITMW-19-202110	10/21/2021	N	1350	13.6	< 1.0 U
ITMW-19	ITMW-19-202210	10/20/2022	N	1570	12.2	< 1.0 U
ITMW-19	ITMW-19-202310	10/19/2023	N	1150	11.4	< 1.0 U
ITMW-19	ITMW-19-202404	4/18/2024	N	3790	25.8	0.34 J
ITMW-19	ITMW-19-202410	10/11/2024	N	610 J	340 J	< 5.0 UJ
ITMW-19	DUP-10-202410	10/11/2024	FD	440 J+	520 J+	< 5.0 UJ
ITMW-20	ITMW-20-19910301-FS	3/1/1991	N	< ND		< ND
ITMW-20	ITMW-20-19931101-FS	11/1/1993	N	< ND		< ND
ITMW-20	ITMW-20-19961201-FS	12/1/1996	N	290		< ND
ITMW-20	ITMW-20-19970501-FS	5/1/1997	N	< ND	< ND	< ND
ITMW-20	ITMW-20-19990201-FS	2/1/1999	N	< ND	< ND	< ND
ITMW-20	ITMW-20-20000301-FS	3/1/2000	N	< ND	< ND	< ND
ITMW-20	MW-20-20000921-FS	9/21/2000	N	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
ITMW-20	MW-20-20010911-FS	9/11/2001	N	21	< 5 U	< 10 U
ITMW-20	ITMW-20-20020910-FS	9/10/2002	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20030924-FS	9/24/2003	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040414-FS	4/14/2004	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
ITMW-20	ITMW-20-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
ITMW-20	MW-20-20091029-FS	10/29/2009	N	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20100512-FS	5/12/2010	N	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20101105-FS	11/5/2010	N	15	< 5 U	< 5 U
ITMW-20	DUP-102611-20111026-FD	10/26/2011	FD	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20120418-FS	4/18/2012	N	< 5 U	< 5 U	< 5 U
ITMW-20	ITMW-20-20121018	10/18/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-101413	10/14/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-201403	3/5/2014	N	< 5.0 U	< 5.0 U	0.15 J
ITMW-20	ITMW-20-201405	5/12/2014	N	0.21 J	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-201410	10/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
ITMW-20	ITMW-20-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0
ITMW-20	ITMW-20-201504	4/13/2015	N	< 1.0 U	< 1.0 U	< 1.0
ITMW-20	ITMW-20-201507	7/22/2015	N	0.20 J	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201605	5/2/2016	N	< 1.0	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201811	11/14/2018	N	< 1.0	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-05-201910	10/23/2019	FD	< 1.0 U	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-20	ITMW-20-202005	5/13/2020	N	0.68 J	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-02-202104	4/12/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-03-202110	10/19/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-05-202204	4/12/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-03-202210	10/17/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202304	4/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-05-202304	4/17/2023	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-02-202310	10/17/2023	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-03-202404	4/16/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	ITMW-20-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-20	DUP-01-202410	10/7/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-19910301-FS	3/1/1991	N	21		< ND
ITMW-21	ITMW-21-19931101-FS	11/1/1993	N	37		< ND
ITMW-21	ITMW-21-19961201-FS	12/1/1996	N	150		< ND
ITMW-21	ITMW-21-19990201-FS	2/1/1999	N	190	< ND	< ND
ITMW-21	ITMW-21-20000301-FS	3/1/2000	N	196	< ND	< ND
ITMW-21	MW-21-20000919-FS	9/19/2000	N	192	< 5 U	< 10 U
ITMW-21	MW-21-20010328-FS	3/28/2001	N	123	< 5 U	< 10 U
ITMW-21	MW-21-20010913-FS	9/13/2001	N	116	< 5 U	< 10 U
ITMW-21	ITMW-21-20020910-FS	9/10/2002	N	13	< 5 U	< 10 U
ITMW-21	ITMW-21-20030226-FS	2/26/2003	N	39.5	< 5 U	< 10 U
ITMW-21	ITMW-21-20030923-FS	9/23/2003	N	9.09	< 5 U	< 10 U
ITMW-21	ITMW-21-20040414-FS	4/14/2004	N	52.9	< 5 U	< 10 U
ITMW-21	ITMW-21-20040922-FS	9/22/2004	N	7.8	< 5 U	< 10 U
ITMW-21	ITMW-21-20050928-FS	9/28/2005	N	6.45	< 5 U	< 10 U
ITMW-21	ITMW-21-20061012-FS	10/12/2006	N	9	< 5 U	< 10 U
ITMW-21	ITMW-21-20070921-FS	9/21/2007	N	10	< 5 U	< 10 U
ITMW-21	ITMW-21-20081209-FS	12/9/2008	N	15	< 5 U	< 5 U
ITMW-21	ITMW-21-20091027-FS	10/27/2009	N	14	< 5 U	< 5 U
ITMW-21	ITMW-21-20101104-FS	11/4/2010	N	1100	4.4 J	< 5 U
ITMW-21	ITMW-21-20110322-FS	3/22/2011	N	24	< 5 U	< 5 U
ITMW-21	ITMW-21-20111025-FS	10/25/2011	N	11	< 5 U	< 5 U
ITMW-21	ITMW-21-20120417-FS	4/17/2012	N	30	< 5 U	< 5 U
ITMW-21	ITMW-21-20121019	10/19/2012	N	7.7	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-20130424	4/24/2013	N	18	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-101513	10/15/2013	N	20	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-201403	3/6/2014	N	14.8	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-201405	5/14/2014	N	17.6	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-201407	7/30/2014	N	9.4	< 5.0 U	< 2.0 U
ITMW-21	DUP-3-201407	7/30/2014	FD	9.3	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-201410	10/15/2014	N	6.0	< 5.0 U	< 2.0 U
ITMW-21	ITMW-21-201501	1/14/2015	N	10.8	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-201504	4/14/2015	N	12.7	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-201507	7/22/2015	N	7.6	0.20 J	< 1.0 U
ITMW-21	ITMW-21-201510	10/8/2015	N	7.2	0.29 J	< 1.0 U
ITMW-21	ITMW-21-201601	1/13/2016	N	9.8	0.27 J	< 1.0 U
ITMW-21	ITMW-21-201605	5/5/2016	N	11.1	0.30 J	< 1.0 U
ITMW-21	ITMW-21-201611	11/9/2016	N	8.1	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-201704	4/28/2017	N	11.9	0.31 J	< 1.0 U
ITMW-21	ITMW-21-201710	10/25/2017	N	7.9	0.25 J	< 1.0 U
ITMW-21	ITMW-21-201804	4/19/2018	N	13.2	0.38 J	< 1.0 U
ITMW-21	ITMW-21-201811	11/15/2018	N	8.0	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-201904	4/24/2019	N	12.3	0.36 J	< 1.0 U
ITMW-21	ITMW-21-201910	10/24/2019	N	6.0	0.30 J	< 1.0 U
ITMW-21	ITMW-21-202005	5/13/2020	N	7.8	0.42 J	< 1.0 U
ITMW-21	ITMW-21-202010	10/8/2020	N	5.4	0.32 J	< 1.0 U
ITMW-21	ITMW-21-202104	4/13/2021	N	8.0	0.25 J	< 1.0 U
ITMW-21	DUP-07-202104	4/13/2021	FD	7.7	0.28 J	< 1.0 U
ITMW-21	ITMW-21-202110	10/20/2021	N	4.9	0.26 J	< 1.0 U
ITMW-21	DUP-04-202110	10/20/2021	FD	5.8	0.22 J	< 1.0 U
ITMW-21	ITMW-21-202204	4/13/2022	N	4.7	0.26 J	< 1.0 U
ITMW-21	DUP-07-202204	4/13/2022	FD	4.9	0.26 J	< 1.0 U
ITMW-21	ITMW-21-202210	10/19/2022	N	6.4	0.29 J	< 1.0 U
ITMW-21	DUP-05-202210	10/19/2022	FD	5.4	0.29 J	< 1.0 U
ITMW-21	ITMW-21-202304	4/18/2023	N	4.5	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-202310	10/18/2023	N	7.3	0.17 J	< 1.0 U
ITMW-21	DUP-03-202310	10/18/2023	FD	7.6	0.19 J	< 1.0 U
ITMW-21	ITMW-21-202404	4/17/2024	N	4.5	< 1.0 U	< 1.0 U
ITMW-21	ITMW-21-202410	10/10/2024	N	4.8	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
ITMW-21	DUP-03-202410	10/10/2024	FD	4.3	< 1.0 U	< 1.0 U
IW-72	IW-72-20090116-FS	1/16/2009	N	27	< 5 U	< 5 U
IW-72	IW-72-20090423-FS	4/23/2009	N	40	< 5 U	< 5 U
IW-72	IW-72-20090508-FS	5/8/2009	N	40	< 5 U	< 5 U
IW-72	IW-72-20110303-FS	3/3/2011	N	3.1 J	< 5.0 U	< 5.0 U
IW-72	IW-72-20110519-FS	5/19/2011	N	< 5.0 U	< 5.0 U	
IW-72	IW-72-20111024-FS	10/24/2011	N	< 5 U	< 5 U	< 5 U
IW-72	IW-72-20120417-FS	4/17/2012	N	3.8 J	< 5 U	< 5 U
IW-72	IW-72-20121019	10/19/2012	N	< 25 U	< 25 U	< 10 U
IW-72	IW-72-20130424	4/24/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-201405	5/12/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-201407	7/29/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-201410	10/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-72	IW-72-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
IW-72	IW-72-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
IW-72	IW-72-201507	7/20/2015	N	0.48 J	< 1.0 U	< 1.0 U
IW-72	IW-72-201510	10/6/2015	N	0.74 J	< 1.0 U	< 1.0 U
IW-72	IW-72-201601	1/12/2016	N	1.4	< 1.0 U	< 1.0 U
IW-72	IW-72-201605	5/3/2016	N	1.8	< 1.0 U	< 1.0 U
IW-73	IW-73-20090423-FS	4/23/2009	N	400	16	< 5 U
IW-73	IW-73-20110519-FS	5/19/2011	N	160	3.6 J	
IW-73	IW-73-20111025-FS	10/25/2011	N	250	4.9 J	< 5 U
IW-73	IW-73-20120417-FS	4/17/2012	N	180	5.8	< 5 U
IW-73	IW-73-20121020	10/20/2012	N	170	7.0	< 2.0 U
IW-73	IW-73-20130424	4/24/2013	N	200	6.5	< 2.0 U
IW-73	IW-73 DUP-20130424	4/24/2013	FD	180	6.4	< 2.0 U
IW-73	IW-73-101513	10/15/2013	N	140	47	6.3
IW-73	IW-73-201403	3/7/2014	N	183	20.9	4.6
IW-73	IW-73-201405	5/14/2014	N	31.9	0.81 J	< 2.0 U
IW-73	IW-73-201407	7/29/2014	N	138	24.3	26.1
IW-73	IW-73-201410	10/14/2014	N	8.5	0.84 J	1.1 J
IW-73	IW-73-201501	1/14/2015	N	70.8	6.3	4.1
IW-73	IW-73-201504	4/15/2015	N	96.8	6.8	1.6
IW-73	IW-73-201507	7/21/2015	N	143	9.0	1.5
IW-73	IW-73-201510	10/6/2015	N	154	7.8	0.59 J
IW-73	IW-73-201601	1/12/2016	N	103	4.3	0.24 J
IW-73	IW-73-201605	5/4/2016	N	125	4.9	0.35 J
IW-73	IW-73-201611	11/9/2016	N	113	2.5	0.16 J
IW-73	DUP-01-201611	11/9/2016	FD	116	2.8	0.21 J
IW-73	IW-73-201704	4/28/2017	N	108	3.8	< 1.0 U
IW-73	IW-73-201710	10/24/2017	N	126	3.3	< 1.0 U
IW-73	IW-73-201804	4/18/2018	N	176	4.0	< 1.0 U
IW-73	IW-73-201811	11/14/2018	N	208	7.3	< 1.0 U
IW-73	IW-73-201904	4/24/2019	N	216	8.0	0.35 J
IW-73	IW-73-201910	11/20/2019	N	215	7.0	0.16 J
IW-73	IW-73-202005	5/13/2020	N	173	6.4	0.21 J
IW-73	DUP-03-202005	5/13/2020	FD	193	6.0	< 1.0 U
IW-73	IW-73-202010	10/7/2020	N	211	7.6	0.27 J
IW-73	IW-73-202104	4/13/2021	N	227	7.8	0.33 J
IW-73	IW-73-202110	10/21/2021	N	198	6.8	1.7 J
IW-73	IW-73-202210	10/21/2022	N	189	6.4	< 1.0 U
IW-73	IW-73-202304	4/19/2023	N	185	5.5	0.26 J
IW-73	IW-73-202310	10/19/2023	N	195	6.2	0.23 J
IW-73	IW-73-202404	4/18/2024	N	139	5.6	0.33 J
IW-73	IW-73-202410	10/10/2024	N	140	4.3	< 1.0 U
IW-74	IW-74-20090423-FS	4/23/2009	N	260	8.1	< 5 U
IW-74	IW-74-20110519-FS	5/19/2011	N	74	< 5.0 U	
IW-74	IW-74-20111025-FS	10/25/2011	N	150	3.1 J	< 5 U
IW-74	IW-74-20120417-FS	4/17/2012	N	130	2.4 J	< 5 U
IW-74	IW-74-20121020	10/20/2012	N	160	3.4 J	< 2.0 U
IW-74	IW-74-20130424	4/24/2013	N	160	4.8 J	< 2.0 U
IW-74	IW-74-101513	10/15/2013	N	190	5.7	< 2.0 U
IW-74	IW-74-201403	3/7/2014	N	135	4.3 J	1.5 J
IW-74	DUP-2-201403	3/7/2014	FD	151	4.5 J	2.2
IW-74	IW-74-201405	5/14/2014	N	169	4.3 J	0.80 J
IW-74	IW-74-201407	7/29/2014	N	177	5.8	0.91 J
IW-74	IW-74-201410	10/14/2014	N	144	3.3 J	< 2.0 U
IW-74	DUP-01-201410	10/14/2014	FD	143	3.3 J	< 2.0 U
IW-74	IW-74-201501	1/14/2015	N	141	3.8	< 1.0 U
IW-74	DUP-01-201501	1/14/2015	FD	139	3.5	< 1.0 U
IW-74	IW-74-201504	4/15/2015	N	147	5.0	< 1.0 U
IW-74	DUP-05-201504	4/15/2015	FD	153	4.8	< 1.0 U
IW-74	IW-74-201507	7/21/2015	N	168	4.6	1.4
IW-74	DUP-08-201507	7/21/2015	FD	168	4.2	1.3

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
IW-74	IW-74-201510	10/7/2015	N	121	3.8	0.36 J
IW-74	DUP-10-201510	10/7/2015	FD	122	3.8	0.33 J
IW-74	IW-74-201601	1/12/2016	N	135	3.2	0.17 J
IW-74	DUP-05-201601	1/12/2016	FD	135	3.3	0.18 J
IW-74	IW-74-201605	5/4/2016	N	122	3.5	0.44 J
IW-74	DUP-07-201605	5/4/2016	FD	108	3.2	0.42 J
IW-75	IW-75-20090116-FS	1/16/2009	N	140	2.4 J	< 5 U
IW-75	IW-75-20111025-FS	10/25/2011	N	< 5 U	< 5 U	< 5 U
IW-75	IW-75-20120417-FS	4/17/2012	N	2.9 J	< 5 U	< 5 U
IW-75	IW-75-20121018	10/18/2012	N	< 25 U	< 25 U	< 10 U
IW-75	IW-75-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-76	IW-76-20090423-FS	4/23/2009	N	730	28	< 5 U
IW-76	IW-76-20090507-FS	5/7/2009	N	460	28	< 5 U
IW-76	IW-76-20110304-FS	3/4/2011	N	380	11	< 5.0 U
IW-76	IW-76-20110523-FS	5/23/2011	N	460	12	
IW-76	IW-76-20111025-FS	10/25/2011	N	130	2.2 J	< 5 U
IW-76	IW-76-20120417-FS	4/17/2012	N	400	8.9	< 5 U
IW-76	IW-76-20121020	10/20/2012	N	610	16	< 2.0 U
IW-76	IW-76-20130424	4/24/2013	N	420	13	0.39 J
IW-76	IW-76-101513	10/15/2013	N	450	8.7	< 2.0 U
IW-76	IW-76-201403	3/8/2014	N	127	1.5 J	< 2.0 U
IW-76	IW-76-201405	5/14/2014	N	10.3	< 5.0 U	< 2.0 U
IW-76	IW-76-201407	7/29/2014	N	319	2.7 J	< 2.0
IW-76	IW-76-201410	10/15/2014	N	214	6.7	< 2.0 U
IW-76	IW-76-201501	1/14/2015	N	288	8.8	< 1.0 U
IW-76	IW-76-201504	4/15/2015	N	354	11.2	< 1.0 U
IW-76	IW-76-201507	7/21/2015	N	323	7.3	< 1.0 U
IW-76	IW-76-201510	10/6/2015	N	106	1.6	< 1.0 U
IW-76	IW-76-201601	1/12/2016	N	80.2 J	1.9	< 1.0 U
IW-76	IW-76-201605	5/4/2016	N	139 J	2.6	< 1.0 U
IW-77	IW-77-20090423-FS	4/23/2009	N	570	20	< 5 U
IW-77	IW-77-20090507-FS	5/7/2009	N	300	17	< 5 U
IW-77	IW-77-20090527-FS	5/27/2009	N	250	13	< 5 U
IW-77	MW-77-20091028-FS	10/28/2009	N	380	13	< 5 U
IW-77	IW-77-20091221-FS	12/21/2009	N	250	12	< 5.0 U
IW-77	IW-77-20100513-FS	5/13/2010	N	260	11	< 5 U
IW-77	IW-77-20101105-FS	11/5/2010	N	1400	41	< 5 U
IW-77	IW-77-20110304-FS	3/4/2011	N	430	14	< 5.0 U
IW-77	IW-77-20110523-FS	5/23/2011	N	440	15	
IW-77	IW-77-20111025-FS	10/25/2011	N	1400	32	< 5 U
IW-77	DUP-01-20120417-FD	4/17/2012	FD	520	20	< 5 U
IW-77	IW-77-20120417-FS	4/17/2012	N	510	23	< 5 U
IW-77	IW-77-20121019	10/19/2012	N	1000	32	0.65 J
IW-77	IW-77-20130424	4/24/2013	N	530	21	< 2.0 U
IW-77	IW-77-101613	10/16/2013	N	1000	39	1.6 J
IW-77	IW-77-101613-FD	10/16/2013	FD	990	39	0.49 J
IW-77	IW-77-201403	3/8/2014	N	546	24.4	0.22 J
IW-77	IW-77-201405	5/14/2014	N	1460	36.0	0.66 J
IW-77	20140709-GW-IW-77	7/9/2014	N	1200	21.1	< 2.0 U
IW-77	IW-77-201407	7/29/2014	N	1540	35.2	< 2.0 U
IW-77	IW-77-201410	10/15/2014	N	741	15.8	< 2.0 U
IW-77	IW-77-20141023	10/23/2014	N	554	11.9	< 2.0 U
IW-77	IW-77-201501	1/14/2015	N	201	4.8	< 1.0 U
IW-77	IW-77-201504	4/14/2015	N	153	2.9	< 1.0 U
IW-77	IW-77-201507	7/21/2015	N	130	2.4	< 1.0 U
IW-77	IW-77-201510	10/8/2015	N	24.3	0.54 J	< 1.0 U
IW-77	IW-77-201511	11/5/2015	N	95.1	1.1	< 1.0 U
IW-77	IW-77-201512	12/2/2015	N	87.8	1.3	< 1.0 U
IW-77	IW-77-201601	1/11/2016	N	95.3	1.3	< 1.0 U
IW-77	IW-77-201605	5/4/2016	N	101	1.7	< 1.0 U
IW-77	IW-77-201611	11/8/2016	N	137	2.1	< 1.0 U
IW-77	IW-77-201704	4/28/2017	N	113	1.8	< 1.0 U
IW-77	IW-77-201710	10/24/2017	N	161	2.9	< 1.0 U
IW-77	IW-77-201804	4/18/2018	N	181	3.6	< 1.0 U
IW-77	IW-77-201811	11/15/2018	N	218	5.1	< 1.0 U
IW-77	IW-77-201904	4/25/2019	N	188	4.1	< 1.0 U
IW-77	DUP-04-201904	4/25/2019	FD	198	4.3	< 1.0 U
IW-77	IW-77-201910	10/23/2019	N	180	6.8	< 1.0 U
IW-77	IW-77-202005	5/12/2020	N	196	4.3	< 1.0 U
IW-77	IW-77-202010	10/8/2020	N	171	5.7	< 1.0 U
IW-77	IW-77-202104	4/13/2021	N	184	5.4	< 1.0 U
IW-77	IW-77-202110	10/22/2021	N	176	7.6	< 5.0 U
IW-77	IW-77-202204	4/13/2022	N	178	5.2	< 1.0 U
IW-77	DUP-09-202204	4/13/2022	FD	188	5.5	< 1.0 U
IW-77	IW-77-202210	10/20/2022	N	157	5.7	< 1.0 U
IW-77	IW-77-202304	4/19/2023	N	184	4.8	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
IW-77	IW-77-202310	10/19/2023	N	181	5.3	< 1.0 U
IW-77	IW-77-202404	4/19/2024	N	166	4.4	< 1.0 U
IW-77	IW-77-202410	10/10/2024	N	79	2.9	< 1.0 U
IW-78	IW-78-20111025-FS	10/25/2011	N	350	12	< 5 U
IW-78	IW-78-20120418-FS	4/18/2012	N	120	2.3 J	< 5 U
IW-78	IW-78-20121020	10/20/2012	N	310	8.7	< 2.0 U
IW-78	IW-78-20130424	4/24/2013	N	7.0	< 5.0 U	< 2.0 U
IW-78	IW-78-101713	10/17/2013	N	190	4.6 J	< 2.0 U
IW-78	IW-78-201405	5/28/2014	N	255	6.2	< 2.0 U
IW-78	IW-78-201409	9/11/2014	N	39.6	1.2 J	< 2.0 U
IW-78	IW-78-201601	1/11/2016	N	1.5	< 1.0 U	< 1.0 U
IW-78	IW-78-201605	5/3/2016	N	1.3	< 1.0 U	< 1.0 U
IW-78	IW-78-201611	11/8/2016	N	2.6	< 1.0 U	< 1.0 U
IW-78	IW-78-201710	10/25/2017	N	7.0	0.16 J	< 1.0 U
IW-78	IW-78-201811	11/15/2018	N	0.74 J	< 1.0 U	< 1.0 U
IW-78	IW-78-201910	10/23/2019	N	2.4	< 1.0 U	< 1.0 U
IW-78	IW-78-202010	10/7/2020	N	25.0	0.66 J	< 1.0 U
IW-78	DUP-09-202110	10/20/2021	N	15.1	0.45 J	< 1.0 U
IW-78	IW-78-202210	10/20/2022	N	17.9	0.24 J	< 1.0 U
IW-78	DUP-09-202210	10/20/2022	FD	19.3	0.49 J	< 1.0 U
IW-78	IW-78-202310	10/18/2023	N	24.8	0.58 J	< 1.0 U
IW-78	DUP-04-202310	10/18/2023	FD	23.9	0.52 J	< 1.0 U
IW-78	IW-78-202411	11/19/2024	N	24	0.59 J	< 1.0 U
IW-78	DUP-06-202411	11/19/2024	FD	24	0.58 J	< 1.0 U
IW-79	IW-79-20111025-FS	10/25/2011	N	570	13	< 5 U
IW-79	IW-79-20120417-FS	4/17/2012	N	430	2.1 J	< 5 U
IW-79	IW-79-20121020	10/20/2012	N	670	20	0.45 J
IW-79	DUPLICATE 2-20121020	10/20/2012	FD	480	16	< 2.0 U
IW-79	IW-79-20130424	4/24/2013	N	420	9.0	< 2.0 U
IW-79	IW-79-101713	10/17/2013	N	440	12	< 2.0 U
IW-79	IW-79-201405	5/28/2014	N	426	6.9	< 2.0 U
IW-79	IW-79-201409	9/11/2014	N	105	1.8 J	< 2.0 U
IW-79	IW-79-201601	1/11/2016	N	70.0	1.4	< 1.0 U
IW-79	IW-79-201605	5/4/2016	N	55.0	1.0	< 1.0 U
IW-80	IW-80-20090423-FS	4/23/2009	N	170	4 J	< 5 U
IW-80	IW-80-20090507-FS	5/7/2009	N	69	< 5 U	< 5 U
IW-80	IW-80-20110519-FS	5/19/2011	N	27	< 5.0 U	
IW-80	IW-80-20111025-FS	10/25/2011	N	9.7	< 5 U	< 5 U
IW-80	IW-80-20120417-FS	4/17/2012	N	55	2.2 J	< 5 U
IW-80	IW-80-20121019	10/19/2012	N	48	< 5.0 U	< 2.0 U
IW-80	IW-80-20130424	4/24/2013	N	40	< 5.0 U	< 2.0 U
IW-80	IW-80-101713	10/17/2013	N	58	2.4 J	< 2.0 U
IW-80	IW-80-101713-DUP	10/17/2013	FD	62	2.4 J	< 2.0 U
IW-80	IW-80-201403	3/8/2014	N	79.1 J	2.7 J	< 2.0 U
IW-80	IW-80-201405	5/13/2014	N	24.2	< 5.0 U	< 2.0 U
IW-80	IW-80-201407	7/30/2014	N	25.6	0.85 J	< 2.0 U
IW-80	IW-80-201410	10/14/2014	N	11.8	< 5.0 U	< 2.0 U
IW-80	IW-80-201501	1/13/2015	N	7.1	< 1.0 U	< 1.0 U
IW-80	IW-80-201504	4/14/2015	N	9.2	< 1.0 U	< 1.0 U
IW-80	IW-80-201507	7/21/2015	N	12.5	0.39 J	< 1.0 U
IW-80	IW-80-201510	10/6/2015	N	10.6	0.37 J	< 1.0 U
IW-80	IW-80-201511	11/5/2015	N	11.0	< 1.0 U	< 1.0 U
IW-80	IW-80-201512	12/2/2015	N	9.0	0.35 J	< 1.0 U
IW-80	IW-80-201601	1/7/2016	N	4.2	< 1.0 U	< 1.0 U
IW-80	IW-80-201605	5/3/2016	N	4.3	< 1.0 U	< 1.0 U
IW-101	IW-101-20140323	3/23/2014	N	314	7.5	0.21 J
IW-101	IW-101-20140430	4/30/2014	N	794	18.9	< 2.0 U
IW-101	IW-101-20140523	5/23/2014	N	509	11.2	< 2.0 U
IW-101	20140708-GW-IW-101	7/8/2014	N	150	4.5 J	< 2.0 U
IW-101	IW-101-201409	9/12/2014	N	139	3.4 J	< 2.0 U
IW-101	IW-101-201601	1/7/2016	N	42.9	1.1	< 1.0 U
IW-101	IW-101-201605	5/5/2016	N	20.3	0.54 J	< 1.0 U
IW-102	IW-102-20140323	3/23/2014	N	685	14.6	0.45 J
IW-102	IW-102-20140430	4/30/2014	N	239	5.4	< 2.0 U
IW-103	IW-103-20140323	3/23/2014	N	692	13.1	0.76 J
IW-103	IW-103-20140430	4/30/2014	N	729	22.8	0.83 J
IW-104	IW-104-20140323	3/23/2014	N	637	13.5	0.69 J
IW-104	IW-104-20140430	4/30/2014	N	527	12.6	< 2.0 U
IW-105	IW-105-20140323	3/23/2014	N	901	14.4	0.54 J
IW-105	IW-105-20140430	4/30/2014	N	185	4.9 J	< 2.0 U
IW-106	IW-106-20140323	3/23/2014	N	198	4.2 J	< 2 U
IW-106	IW-106-20140430	4/30/2014	N	163	6.8	< 2.0 U
IW-106	IW-106-20140523	5/23/2014	N	132	2.6 J	< 2.0 U
IW-107	IW-107-20140323	3/23/2014	N	198	4.3 J	0.14 J
IW-107	IW-107-20140430	4/30/2014	N	110	3.3 J	< 2.0 U
IW-108	IW-108-20140323	3/23/2014	N	1280	27.8	0.83 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
IW-108	IW-108-20140429	4/29/2014	N	72.1	4.1 J	< 2.0 U
IW-108	IW-108-20140523	5/23/2014	N	59.0	1.5 J	< 2.0 U
IW-109	IW-109-20140323	3/23/2014	N	362	7.4	0.23 J
IW-109	IW-109-20140429	4/29/2014	N	91.2	2.5 J	< 2.0 U
IW-109	IW-109-20140523	5/23/2014	N	110	1.9 J	< 2.0 U
IW-110	IW-110-20140323	3/23/2014	N	464	9.8	0.5 J
IW-110	IW-110	4/16/2014	N	397	9.4	0.17 J
IW-110	IW-110-20140430	4/30/2014	N	268	8.2	0.33 J
IW-111	IW-111-20140323	3/23/2014	N	704	14	0.63 J
IW-111	IW-111-20140429	4/29/2014	N	260	6.4	< 2.0 U
IW-112	IW-112-20140323	3/23/2014	N	219	4.9 J	0.23 J
IW-112	IW-112	4/16/2014	N	200	4.8 J	< 2.0 U
IW-112	IW-112-20140430	4/30/2014	N	104	3.8 J	< 2.0 U
IW-113	IW-113-20140324	3/24/2014	N	510	11.1	0.43 J
IW-113	IW-113	4/14/2014	N	435	8.7	< 2.0 U
IW-114	IW-114-20140324	3/24/2014	N	397	9.7	0.25 J
IW-114	IW-114	4/14/2014	N	336	8.1	< 2.0 U
IW-115	IW-115-20140324	3/24/2014	N	622	14	0.25 J
IW-115	IW-115-20140407	4/7/2014	N	455	9.1 J	< 20.0 U
IW-115	IW-115	4/14/2014	N	449	9.3	< 2.0 U
IW-115	IW-115-201405	5/28/2014	N	504	11.2	0.27 J
IW-115	20140709-GW-IW-115	7/9/2014	N	352	7.4	< 2.0 U
IW-115	IW-115-201409	9/11/2014	N	355	8.0	< 2.0 U
IW-115	IW-115-201601	1/11/2016	N	169	3.6	< 1.0 U
IW-115	IW-115-201605	5/4/2016	N	51.9	1.1	< 1.0 U
IW-116	IW-116-20140324	3/24/2014	N	486	10.9	0.33 J
IW-116	IW-116	4/15/2014	N	546	10.8	0.34 J
IW-117	IW-117-20140324	3/24/2014	N	384	9.1	0.23 J
IW-117	IW-117	4/15/2014	N	384	9.9	< 2.0 U
IW-118	IW-118-20140324	3/24/2014	N	496	11.6	0.34 J
IW-118	IW-118	4/15/2014	N	395	9.7	< 2.0 U
IW-118	IW-118-201405	5/28/2014	N	437	9.3	< 2.0 U
IW-119	IW-119-20140324	3/24/2014	N	524	11.5	0.33 J
IW-119	IW-119-20140407	4/7/2014	N	478	9.1 J	< 20.0 U
IW-119	IW-119	4/15/2014	N	509	11.3	< 2.0 U
IW-120	IW-120-20140324	3/24/2014	N	289	7.9	0.14 J
IW-120	IW-120	4/15/2014	N	390	10.2	< 2.0 U
IW-121	IW-121-20140324	3/24/2014	N	402	8.9 J	< 10 U
IW-121	IW-121	4/15/2014	N	445	11.7	< 2.0 U
IW-122	IW-122-20140324	3/24/2014	N	473	11.5	0.29 J
IW-122	IW-122	4/15/2014	N	384	10.0	< 2.0 U
IW-123	IW-123-20140324	3/24/2014	N	532	12.2	0.40 J
IW-123	IW-123-20140407	4/7/2014	N	539	8.8 J	< 20.0 U
IW-123	IW-123	4/15/2014	N	488	10.0	< 2.0 U
IW-124	IW-124-20140324	3/24/2014	N	455	6.8 J	< 10 U
IW-124	IW-124	4/15/2014	N	448	8.7	0.26 J
IW-125	IW-125-20140325	3/25/2014	N	2140	207	3.1
IW-125	IW-125-201405	5/29/2014	N	17.1	2.9 J	< 2.0 U
IW-125	IW-125-201409	9/11/2014	N	7.3	1.0 J	< 2.0 U
IW-126	IW-126-20140325	3/25/2014	N	2020	197	10.4
IW-126	IW-126-201405	5/29/2014	N	787	59.1	< 2.0 U
IW-127	IW-127-20140324	3/24/2014	N	3700	219 J	7.6
IW-127	IW-127-201405	5/29/2014	N	639	34.7	< 2.0 U
IW-127	IW-127-201409	9/11/2014	N	1020	38.5	2.6
IW-127	IW-127-20141204	12/4/2014	N	182	7.2	< 2.0 U
IW-128	IW-128-20140325	3/25/2014	N	2980	178	11.7
IW-128	IW-128-20140429	4/29/2014	N	1250	68.4	4.9
IW-128	IW-128-201405	5/29/2014	N	1190	62.7	< 2.0 U
IW-129	IW-129-20140325	3/25/2014	N	2540	192	< 2.0 U
IW-129	IW-129-201405	5/29/2014	N	25.8	1.8 J	< 2.0 U
IW-130	IW-130-20140323	3/23/2014	N	358	7.6 J	< 10 U
IW-130	IW-130-20140523	5/23/2014	N	75.5	0.78 J	< 2.0 U
IW-131	IW-131-20140324	3/24/2014	N	526	11.5	0.35 J
IW-131	IW-131-20140430	4/30/2014	N	318	8.5	0.31 J
IW-131	IW-131-201405	5/28/2014	N	443	8.8	0.30 J
IW-132	IW-132-20141023	10/23/2014	N	714	3.5 J	< 2.0 U
IW-132	IW-132-201910	10/24/2019	N	292	0.57 J	< 1.0 U
IW-132	IW-132-202005	5/13/2020	N	180	0.63 J	< 1.0 U
IW-132	IW-132-202010	10/8/2020	N	210	0.63 J	< 1.0 U
IW-134	IW-134-201910	10/24/2019	N	1090	9.9	< 1.0 U
IW-134	IW-134-202005	5/13/2020	N	985	8.3	< 1.0 U
IW-134	DUP-02-202005	5/13/2020	FD	922	8.8	0.21 J
IW-134	IW-134-202010	10/8/2020	N	1110	10.6	0.38 J
IW-135	IW-135-20141023	10/23/2014	N	3840	43.3	2.0
IW-141	IW-141-20141023	10/23/2014	N	368000	< 10000 U	82.6
IW-141	IW-141-20141205	12/5/2014	N	46300	232 E	31.0

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
IW-143	IW-143-20141023	10/23/2014	N	13100	44.8	2.5
IW-147	IW-147-20141023	10/23/2014	N	199000	1640 J	< 4000 U
IW-147	IW-147-20141205	12/5/2014	N	91600	1420 J	176
IW-147	IW-147-201910	10/24/2019	N	95800	5420	376 J
IW-147	IW-147-202005	5/13/2020	N	37500	4460	170
IW-147	IW-147-202010	10/7/2020	N	76800	8340	329 J
IW-152	IW-152-20141022	10/22/2014	N	17600	224 J	8.2
IW-152	IW-152-20141204	12/4/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
IW-153	IW-153-20141023	10/23/2014	N	293	85.3	12.3
IW-153	IW-153-20141204	12/4/2014	N	1.6 J	< 5.0 U	< 2.0 U
IW-155	IW-155-20141023	10/23/2014	N	14600	36.4	5.8
IW-157	IW-157-20141023	10/23/2014	N	74200	712 J	195
IW-157	IW-157-20141205	12/5/2014	N	31700	391 E	66.8
IW-169	IW-169-20141022	10/22/2014	N	163	1.7 J	< 2.0 U
MCP-HP-01	MCP-HP-01-WG-29.5	7/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MCP-HP-02	MCP-HP-02-WG-31	7/13/2020	N	1.2	0.60 J	< 1.0 U
MCP-HP-03	MCP-HP-03-WG-28	7/13/2020	N	52.8	4.4	0.11 J
MCP-HP-04	MCP-HP-04-WG-27	7/13/2020	N	3.5 J	< 5.0 U	< 5.0 U
MCP-HP-05	MCP-HP-05	7/14/2020	N	6.4	0.91 J	< 1.0 U
MCP-HP-07	MCP-HP-07-WG-23	7/16/2020	N	14.9	1.1	< 1.0 U
MCP-HP-08	MCP-HP-08-WG-20200923	9/23/2020	N	< 5.0 U	< 5.0 U	< 5.0 U
MCP-HP-09	MCP-HP-09-WG-20200923	9/23/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MCP-HP-10	MCP-HP-10-WG-20200923	9/23/2020	N	30.2	2.8 J	< 5.0 U
MCP-HP-11	MCP-HP-11-WG-20200924	9/24/2020	N	18.1	2.9 J	< 5.0 U
MCP-HP-12	MCP-HP-12-WG-20200925	9/25/2020	N	3.9	0.45 J	< 1.0 U
MCP-HP-13	MCP-HP-13-WG-20200925	9/25/2020	N	55.7	6.5	0.31 J
MW-22	MW-22-19961201-FS	12/1/1996	N	< ND		< ND
MW-22	MW-22-19970501-FS	5/1/1997	N	< ND	5	< ND
MW-22	MW-22-19990201-FS	2/1/1999	N	< ND	5	< ND
MW-22	MW-22-20000301-FS	3/1/2000	N	< ND	< ND	< ND
MW-22	MW-22-20000919-FS	9/19/2000	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20020910-FS	9/10/2002	N	9	< 5 U	< 10 U
MW-22	ITMW-22-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20030923-FS	9/23/2003	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22 DUP-2-20030923-FD	9/23/2003	FD	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040413-FS	4/13/2004	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20040921-FS	9/21/2004	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20061014-FS	10/14/2006	N	< 5 U	< 5 U	< 10 UJ
MW-22	MW-22-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U
MW-22	MW-22-20081209-FS	12/9/2008	N	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20101103-FS	11/3/2010	N	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20111027-FS	10/27/2011	N	2.1 J	< 5 U	< 5 U
MW-22	MW-22-20120418-FS	4/18/2012	N	< 5 U	< 5 U	< 5 U
MW-22	MW-22-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-101413	10/14/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-201403	3/5/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-201405	5/12/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-201410	10/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-22	MW-22-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201504	4/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201507	7/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	DUP-07-202010	10/8/2020	FD	0.59 J	< 1.0 U	< 1.0 U
MW-22	MW-22-202110	10/20/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-202210	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-22	MW-22-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-23	MW-23-19961201-FS	12/1/1996	N	210		< ND
MW-23	MW-23-19970501-FS	5/1/1997	N	2400		< ND
MW-23	MW-23-19990201-FS	2/1/1999	N	350	10	< ND
MW-23	MW-23 DUP-19990201-FD	2/1/1999	FD	440	10	< ND
MW-23	MW-23 DUP-20000301-FD	3/1/2000	FD	147	< ND	< ND
MW-23	MW-23-20000921-FS	9/21/2000	N	67	< 5 U	< 10 U

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Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-23	MW-23-20010105-FS	1/5/2001	N	137	< 5 U	< 10 U
MW-23	MW-23-20010326-FS	3/26/2001	N	87	< 5 U	< 10 U
MW-23	MW-23-20010911-FS	9/11/2001	N	23	< 5 U	< 10 U
MW-23	MW-23-20020911-FS	9/11/2002	N	111	< 5 U	< 10 U
MW-23	MW-23 DUP-3-20020911-FD	9/11/2002	FD	105	< 5 U	< 10 U
MW-23	ITMW-23-20030227-FS	2/27/2003	N	54	< 5 U	< 10 U
MW-23	MW-23-20030925-FS	9/25/2003	N	83.9	< 5 U	< 10 U
MW-23	MW-23-20040415-FS	4/15/2004	N	70.3	< 5 U	< 10 U
MW-23	MW-23-20040922-FS	9/22/2004	N	73.4	< 5 U	< 10 U
MW-23	MW-23-20050405-FS	4/5/2005	N	55.5	< 5 U	< 10 U
MW-23	MW-23-20050929-FS	9/29/2005	N	65.8	< 5 U	< 10 U
MW-23	MW-23-20060317-FS	3/17/2006	N	47.1	< 5 U	< 10 U
MW-23	MW-23-20061014-FS	10/14/2006	N	59	< 5 U	< 10 UJ
MW-23	MW-23-20070419-FS	4/19/2007	N	39.9	9.79	< 10 U
MW-23	MW-23-20070919-FS	9/19/2007	N	47	< 5 U	< 10 U
MW-23	MW-23-20080429-FS	4/29/2008	N	29 0	< 5 U	< 10 U
MW-23	MW-23-20081210-FS	12/10/2008	N	69	< 5 U	< 5 U
MW-23	MW-23-20090427-FS	4/27/2009	N	32	< 5 U	< 5 U
MW-23	MW-23-20091029-FS	10/29/2009	N	45	< 5 U	< 5 U
MW-23	DUP-2-20100512-FD	5/12/2010	FD	55	< 5 U	< 5 U
MW-23	MW-23-20100512-FS	5/12/2010	N	52	< 5 U	< 5 U
MW-23	MW-23-20101105-FS	11/5/2010	N	76	< 5 U	< 5 U
MW-23	MW-23-20110323-FS	3/23/2011	N	46	< 5 U	< 5 U
MW-23	MW-23-20111027-FS	10/27/2011	N	41	< 5 U	< 5 U
MW-23	MW-23-20120418-FS	4/18/2012	N	36	< 5 U	< 5 U
MW-23	MW-23-20121019	10/19/2012	N	43	< 5.0 U	< 2.0 U
MW-23	MW-23-20130425	4/25/2013	N	20	< 5.0 U	< 2.0 U
MW-23	MW-23-101613	10/16/2013	N	54	< 5.0 U	< 2.0 U
MW-23	MW-23-20140522	5/22/2014	N	22.8	< 5.0 U	< 2.0 U
MW-23	20140708-GW-MW-23	7/8/2014	N	27.8	0.68 J	< 2.0 U
MW-23	MW-23-201409	9/12/2014	N	62.1	1.8 J	< 2.0 U
MW-23	MW-23-20141023	10/23/2014	N	189	3.5 J	< 2.0 U
MW-23	MW-23-201501	1/15/2015	N	115	2.2	< 1.0 U
MW-23	MW-23-201504	4/14/2015	N	57.5	1.1	< 1.0 U
MW-23	MW-23-201507	7/23/2015	N	37.8	0.95 J	< 1.0 U
MW-23	MW-23-201510	10/8/2015	N	0.65 J	< 1.0 U	< 1.0 U
MW-23	MW-23-201511	11/5/2015	N	0.40 J	< 1.0 U	< 1.0 U
MW-23	MW-23-201512	12/1/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-23	MW-23-201601	1/7/2016	N	0.48 J	< 1.0 U	< 1.0 U
MW-23	MW-23-201605	5/5/2016	N	0.90 J	< 1.0 U	< 1.0 U
MW-24	MW-24-19990201-FS	2/1/1999	N	1400	49	< ND
MW-24	MW-24-20000301-FS	3/1/2000	N	403	25	< ND
MW-24	MW-24 DUP-20000301-FD	3/1/2000	FD	595	24	< ND
MW-24	MW-24-20000921-FS	9/21/2000	N	128	11	< 10 U
MW-24	MW-24-20010105-FS	1/5/2001	N	247	12	< 10 U
MW-24	MW-24-20010326-FS	3/26/2001	N	330	11	< 10 U
MW-24	MW-24-20010911-FS	9/11/2001	N	124	6	< 10 U
MW-24	MW-24-20020911-FS	9/11/2002	N	199	6	< 10 U
MW-24	ITMW-24-20030227-FS	2/27/2003	N	253	7.01	< 10 U
MW-24	MW-24-20030925-FS	9/25/2003	N	155	< 5 U	< 10 U
MW-24	MW-24-20040415-FS	4/15/2004	N	181	5.12	< 10 U
MW-24	MW-24-20040923-FS	9/23/2004	N	116	< 5 U	< 10 U
MW-24	MW-24-20050406-FS	4/6/2005	N	152	6.04	< 10 U
MW-24	MW-24-20050929-FS	9/29/2005	N	161	< 5 U	< 10 U
MW-24	MW-24-20060316-FS	3/16/2006	N	347	7.57	< 10 U
MW-24	MW-24-20061014-FS	10/14/2006	N	620	11	2 J
MW-24	MW-24-20070419-FS	4/19/2007	N	196	11.6	< 10 U
MW-24	MW-24-20070920-FS	9/20/2007	N	140	< 5 U	< 10 U
MW-24	DUP-2-20070920-FD	9/20/2007	FD	150	< 5 U	< 10 U
MW-24	MW-24-20080429-FS	4/29/2008	N	150 0	3 J	< 10 U
MW-24	MW-24-20081210-FS	12/10/2008	N	150	3.4 J	< 5 U
MW-24	DUP-6-20081210-FS	12/10/2008	FD	130	3.4 J	< 5 U
MW-24	MW-24-20090427-FS	4/27/2009	N	120	< 5 U	< 5 U
MW-24	MW-24-20091029-FS	10/29/2009	N	110	2.6 J	< 5 U
MW-24	MW-24-20100512-FS	5/12/2010	N	150	4.3 J	< 5 U
MW-24	MW-24-20110323-FS	3/23/2011	N	170	3.6 J	< 5 U
MW-24	MW-24-20111027-FS	10/27/2011	N	170	1.9 J	< 5 U
MW-24	DUP-01-20111027-FD	10/27/2011	FD	170	1.4 J	< 5 U
MW-24	MW-24-20120418-FS	4/18/2012	N	150	2.9 J	< 5 U
MW-24	MW-15-20121019	10/19/2012	N	190	3.7 J	< 2.0 U
MW-24	MW-24-20130425	4/25/2013	N	110	3.5 J	0.23 J
MW-24	MW-24-20140522	5/22/2014	N	79.7	1.2 J	< 2.0 U
MW-24	20140708-GW-MW-24	7/8/2014	N	102	1.4 J	< 2.0 U
MW-24	MW-24-201409	9/12/2014	N	55.7	0.66 J	< 2.0 U
MW-24	MW-24-20141023	10/23/2014	N	33.1	< 5.0 U	< 2.0 U
MW-24	MW-24-201501	1/15/2015	N	26.9	< 1.0 U	< 1.0 U

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Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-24	MW-24-201504	4/16/2015	N	18.8	< 1.0 U	< 1.0 U
MW-24	MW-24-201507	7/23/2015	N	178	3.1	< 1.0 U
MW-24	MW-24-201510	10/8/2015	N	44.1	0.83 J	< 1.0 U
MW-24	MW-24-201511	11/5/2015	N	75.8	0.20 J	< 1.0 U
MW-24	MW-24-201512	12/2/2015	N	84.1	0.59 J	< 1.0 U
MW-24	MW-24-201601	1/7/2016	N	49.3	0.48 J	< 1.0 U
MW-24	MW-24-201605	5/4/2016	N	23.8 J	0.27 J	< 1.0 U
MW-24	MW-24-201611	11/8/2016	N	4.2	< 1.0 U	< 1.0 U
MW-24	MW-24-201710	10/25/2017	N	20.9	< 1.0 U	< 1.0 U
MW-24	DUP-02-201811	11/15/2018	FD	12.5	< 1.0 U	< 1.0 U
MW-24	MW-24-201811	11/15/2018	N	12.6	< 1.0 U	< 1.0 U
MW-24	MW-24-2019110	10/23/2019	N	19.0	0.24 J	< 1.0 U
MW-24	MW-24-202010	10/8/2020	N	144	2.2	< 1.0 U
MW-24	DUP-08-202010	10/8/2020	FD	148	2.3	< 1.0 U
MW-24	MW-24-202110	10/21/2021	N	10.4	0.24 J	< 1.0 U
MW-24	DUP-07-202110	10/21/2021	FD	10.0	< 1.0 U	< 1.0 U
MW-24	MW-24-202210	10/20/2022	N	10.5	< 1.0 U	< 1.0 U
MW-24	DUP-04-202210	10/20/2022	FD	10.9	0.31 J	< 1.0 U
MW-24	MW-24-202310	10/18/2023	N	16.0	0.29 J	< 1.0 U
MW-24	DUP-08-202310	10/18/2023	FD	16.1	0.32 J	< 1.0 U
MW-24	MW-24-202404	4/18/2024	N	13.6	0.21 J	< 1.0 U
MW-24	MW-24-202410	10/9/2024	N	16	< 1.0 U	< 1.0 U
MW-25	MW-25-19990201-FS	2/1/1999	N	29000	170	100
MW-25	MW-25 DUP-19990201-FD	2/1/1999	FD	27000	180	110
MW-25	MW-25-19991201-FS	12/1/1999	N	94500	< ND	< ND
MW-25	MW-25-20000301-FS	3/1/2000	N	35900	245	63
MW-25	MW-25-20000921-FS	9/21/2000	N	59000	300	50
MW-25	MW-25-20010328-FS	3/28/2001	N	34000	117	60
MW-25	MW-25-20010913-FS	9/13/2001	N	60000	300	< 200 U
MW-25	MW-25L-20020909-FS	9/9/2002	N	157000	440	180
MW-25	MW-25T-20020909-FS	9/9/2002	N	56000	370	200
MW-25	ITMW-25-20030226-FS	2/26/2003	N	45900	557	75.7
MW-25	MW-25-20030717-FS	7/17/2003	N	62200	621	243
MW-25	MW-25-20030924-FS	9/24/2003	N	103000	775	< 500 U
MW-25	MW-25-20040414-FS	4/14/2004	N	25600	255	31.8
MW-25	MW-25-20040921-FS	9/21/2004	N	85200	819	422
MW-25	MW-25-20050407-FS	4/7/2005	N	21100	353	61.1
MW-25	MW-25-20050928-FS	9/28/2005	N	136000	837	< 500 U
MW-25	MW-25-20060315-FS	3/15/2006	N	36300	774	< 200 U
MW-25	MW-25-20061012-FS	10/12/2006	N	64000	1300	610
MW-25	DUP-2-20061012-FD	10/12/2006	FD	65000	1400	600
MW-25	MW-25-20070418-FS	4/18/2007	N	19000	321	20
MW-25	DUP-1-20070418-FD	4/18/2007	FD	18000	319	20
MW-25	MW-25-20070921-FS	9/21/2007	N	54000	1200	800
MW-25	DUP-3-20070921-FD	9/21/2007	FD	55000	1200	780
MW-25	MW-25-20080429-FS	4/29/2008	N	23000 0	470 0	10 J
MW-25	DUP-1-20080429-FD	4/29/2008	FD	25000 0	510 0	10 J
MW-25	MW-25-20081210-FS	12/10/2008	N	100000	1200	430
MW-25	MW-25-20090427-FS	4/27/2009	N	36000	2100	140
MW-25	DUP-2-20090427-FD	4/27/2009	FD	39000	2000	190
MW-25	MW-25-20091027-FS	10/27/2009	N	140000	1500	570
MW-25	MW-25-20100511-FS	5/11/2010	N	81000	1400	11
MW-25	MW-25-20101104-FS	11/4/2010	N	270000	1500	400
MW-25	MW-25-20110322-FS	3/22/2011	N	57000	2400	34
MW-25	MW-25-20111026-FS	10/26/2011	N	120000	2100	< 250 U
MW-25	MW-25-20120417-FS	4/17/2012	N	18000	690	18
MW-25	MW-25-20121019	10/19/2012	N	56000	4200	1500
MW-25	DUPLICATE 1-20121019	10/19/2012	FD	49000	3600	1500
MW-25	MW-25-20130425	4/25/2013	N	9100	330	7.9
MW-25	DUP MW-25-20130425	4/25/2013	FD	9500	380	11
MW-25	MW-25-101813	10/18/2013	N	43000	2900	1300
MW-25	MW-25-20140308	3/8/2014	N	14500	625	33.6 J
MW-25	MW-25-201405	5/15/2014	N	18500	600 J	30.3
MW-25	20140709-GW-MW-25	7/9/2014	N	49900	1750	< 2.0 U
MW-25	MW-25-201407	7/31/2014	N	71700	2310 J	< 2000 U
MW-25	MW-25-201410	10/16/2014	N	42500	2870 J	540 J
MW-25	MW-25-20141024	10/24/2014	N	59800	2650 J	0.66 J
MW-25	MW-25-20141205	12/5/2014	N	2620 J	31.5	2.1
MW-25	MW-25-201501	1/15/2015	N	2510	126	1.6
MW-25	MW-25-201504	4/16/2015	N	4650	204	6.4
MW-25	MW-25-201507	7/23/2015	N	39800	580 J	66.4
MW-25	MW-25-201510	10/8/2015	N	68700	957 J	< 1.0 U
MW-25	MW-25-201601	1/13/2016	N	43400	608 J	55.0
MW-25	MW-25-201605	5/5/2016	N	53000	83.6	< 1.0 U
MW-25	MW-25-201611	11/9/2016	N	36900	509 J	< 1000 U
MW-25	MW-25-201710	10/26/2017	N	97400	22900	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-25	FD-08-201710	10/26/2017	FD	95900	20900	< 1.0 U
MW-25	MW-25-201811	11/16/2018	N	94300	18200	762 J
MW-25R	MW-25R-201910	10/25/2019	N	5410	1880	113
MW-25R	MW-25R-202010	10/8/2020	N	3130	1050	21.4
MW-25R	MW-25R-202110	10/22/2021	N	7440	2840	54.2
MW-25R	MW-25R-202210_4073	10/20/2022	N	7530	< 1.0 U	26.4
MW-25R	MW-25R-202310	10/18/2023	N	6300	3120	88.4
MW-25R	MW-25R-202410	10/11/2024	N	2600 J	2600 J	39 J
MW-26	MW-26-19990201-FS	2/1/1999	N	360	150	< ND
MW-26	MW-26-19990601-FS	6/1/1999	N	< ND	< ND	< ND
MW-26	MW-26-20000301-FS	3/1/2000	N	< ND	< ND	< ND
MW-26	MW-26-20000921-FS	9/21/2000	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010326-FS	3/26/2001	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20010911-FS	9/11/2001	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26 DUP-20010911-FD	9/11/2001	FD	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20020910-FS	9/10/2002	N	< 5 U	< 5 U	< 10 U
MW-26	ITMW-26-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20030924-FS	9/24/2003	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20040414-FS	4/14/2004	N	< 5 U	< 5 U	< 10 U
MW-26	ITMW-26-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-26	MW-26-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20091029-FS	10/29/2009	N	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20100512-FS	5/12/2010	N	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20101105-FS	11/5/2010	N	22	< 5 U	< 5 U
MW-26	MW-26-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20120418-FS	4/18/2012	N	< 5 U	< 5 U	< 5 U
MW-26	MW-26-20121018	10/18/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-201403	3/5/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-201405	5/12/2014	N	0.25 J	< 5.0 U	< 2.0 U
MW-26	MW-26-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-26	MW-26-201501	1/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201504	4/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201507	7/22/2015	N	0.18 J	< 1.0 U	< 1.0 U
MW-26	MW-26-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201601	1/13/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201704	4/28/2017	N	0.28 J	< 1.0 U	< 1.0 U
MW-26	MW-26-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201804	4/18/2018	N	1.0	< 1.0 U	< 1.0 U
MW-26	MW-26-201811	11/14/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-26	DUP-09-201811	11/14/2018	FD	0.46 J	< 1.0 U	< 1.0 U
MW-26	MW-26-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202005	5/13/2020	N	0.65 J	< 1.0 U	< 1.0 U
MW-26	MW-26-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202304	4/17/2023	N	1.6	0.13 J	< 1.0 U
MW-26	MW-26-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-26	MW-26-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-27	MW-27-19991201-FS	12/1/1999	N	< ND	< ND	< ND
MW-27	MW-27 26'-19991207-FS	12/7/1999	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-19991209-FS	12/9/1999	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20000301-FS	3/1/2000	N	< ND	< ND	< ND
MW-27	MW-27-20000921-FS	9/21/2000	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010105-FS	1/5/2001	N	< 5 U	< 5 U	< 10 U
MW-27	DUPLICATE-20010105-FD	1/5/2001	FD	5.55	< 5 U	< 10 U
MW-27	MW-27-20010326-FS	3/26/2001	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20010911-FS	9/11/2001	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20020911-FS	9/11/2002	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27 DUP-4-20020911-FD	9/11/2002	FD	< 5 U	< 5 U	< 10 U
MW-27	ITMW-27-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U

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Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-27	MW-27-20061014-FS	10/14/2006	N	2 J	< 5 U	< 10 U
MW-27	MW-27-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-27	MW-27-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20100512-FS	5/12/2010	N	3.1 J	< 5 U	< 5 U
MW-27	MW-27-20101105-FS	11/5/2010	N	42	< 5 U	< 5 U
MW-27	MW-27-20111027-FS	10/27/2011	N	< 5 U	< 5 U	< 5 U
MW-27	MW-27-20120418-FS	4/18/2012	N	2.6 J	< 5 U	< 5 U
MW-27	MW-27-20121018	10/18/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-27	MW-27-20130424	4/24/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-27	MW-27-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-27	MW-27-201403	3/7/2014	N	0.31 J	< 5.0 U	< 2.0 U
MW-27	MW-27-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-27	MW-27-201407	7/30/2014	N	0.63 J	< 5.0 U	< 2.0 U
MW-27	MW-27-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-27	MW-27-201501	1/14/2015	N	0.84 J	0.59 J	< 1.0 U
MW-27	MW-27-201504	4/13/2015	N	0.59 J	< 1.0 U	< 1.0 U
MW-27	MW-27-201507	7/22/2015	N	0.18 J	< 1.0 U	< 1.0 U
MW-27	MW-27-201510	10/7/2015	N	0.55 J	0.33 J	< 1.0 U
MW-27	MW-27-201601	1/12/2016	N	0.61 J	0.42 J	< 1.0 U
MW-27	MW-27-201605	5/4/2016	N	0.35 J	0.18 J	< 1.0 U
MW-27	MW-27-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-27	MW-27-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-27	MW-27-201811	11/13/2018	N	0.92 J	0.27 J	< 1.0 U
MW-27	MW-27-201910	10/24/2019	N	1.9	0.40 J	< 1.0 U
MW-27	MW-27-202010	10/7/2020	N	10.2	0.42 J	< 1.0 U
MW-27	MW-27-202110	10/18/2021	N	56.3	1.6	< 1.0 U
MW-27	MW-27-202210	10/18/2022	N	105	1.8	< 1.0 U
MW-27	MW-27-202310	10/18/2023	N	123	3.1	< 1.0 U
MW-27	MW-27-202404	4/18/2024	N	106	2.5	< 1.0 U
MW-27	MW-27-202410	10/8/2024	N	0.64 J	2.4 J-	< 1.0 UJ
MW-28	MW-28-19991201-FS	12/1/1999	N	< ND	< ND	< ND
MW-28	MW-28-19991209-FS	12/9/1999	N	< 5 U	< 5 U	< 10 U
MW-28	DUPLICATE-19991209-FD	12/9/1999	FD	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20000301-FS	3/1/2000	N	< ND	< ND	< ND
MW-28	MW-28-20000921-FS	9/21/2000	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
MW-28	DUPLICATE 1-20010327-FD	3/27/2001	FD	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20010911-FS	9/11/2001	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20020911-FS	9/11/2002	N	< 5 U	< 5 U	< 10 U
MW-28	ITMW-28-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20061014-FS	10/14/2006	N	< 5 U	< 5 U	< 10 UJ
MW-28	MW-28-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-28	MW-28-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20091029-FS	10/29/2009	N	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20100512-FS	5/12/2010	N	2.6 J	< 5 U	< 5 U
MW-28	MW-28-20101105-FS	11/5/2010	N	54	< 5 U	< 5 U
MW-28	MW-28-20110323-FS	3/23/2011	N	1.6 J	< 5 U	< 5 U
MW-28	MW-28-20111027-FS	10/27/2011	N	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20120419-FS	4/19/2012	N	< 5 U	< 5 U	< 5 U
MW-28	MW-28-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-20130424	4/24/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-201405	5/13/2014	N	0.30 J	< 5.0 U	< 2.0 U
MW-28	MW-28-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-28	MW-28-201501	1/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201504	4/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201507	7/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-202110	10/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-202210	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-28	MW-28-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-19991201-FS	12/1/1999	N	< ND	< ND	< ND

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Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-29	MW-29-19991209-FS	12/9/1999	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20000301-FS	3/1/2000	N	< ND	< ND	< ND
MW-29	MW-29-20000920-FS	9/20/2000	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010327-FS	3/27/2001	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20010911-FS	9/11/2001	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20020910-FS	9/10/2002	N	< 5 U	< 5 U	< 10 U
MW-29	ITMW-29-20030227-FS	2/27/2003	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20030924-FS	9/24/2003	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040414-FS	4/14/2004	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20040922-FS	9/22/2004	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20050928-FS	9/28/2005	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-29	MW-29-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-29	DUP-2-20081210-FD	12/10/2008	FD	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20091029-FS	10/29/2009	N	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20111025-FS	10/25/2011	N	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20120418-FS	4/18/2012	N	< 5 U	< 5 U	< 5 U
MW-29	MW-29-20121018	10/18/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-29	MW-29-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-29	MW-29-101413	10/14/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-29	MW-29-201403	3/5/2014	N	0.52 J	< 5.0 U	< 2.0 U
MW-29	MW-29-201405	5/13/2014	N	0.18 J	< 5.0 U	< 2.0 U
MW-29	MW-29-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-29	MW-29-201410	10/15/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-29	MW-29-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201507	7/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201601	1/13/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201710	10/25/2017	N	< 1.0 U	0.16 J	< 1.0 U
MW-29	MW-29-201804	4/19/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201811	11/15/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-29	MW-29-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202005	5/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-29	MW-29-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-30	MW-30-19991201-FS	12/1/1999	N	115	34	< ND
MW-30	MW-30-19991209-FS	12/9/1999	N	115	34	< 10 U
MW-30	MW-30-20000301-FS	3/1/2000	N	86	25	< ND
MW-30	MW-30-20000920-FS	9/20/2000	N	102	25	< 10 U
MW-30	MW-30-20010327-FS	3/27/2001	N	43	11	< 10 U
MW-30	MW-30-20010911-FS	9/11/2001	N	63	18	< 10 U
MW-30	MW-30-20020910-FS	9/10/2002	N	48	14	< 10 U
MW-30	MW-30-20030227-FS	2/27/2003	N	60	20.3	< 10 U
MW-30	MW-30-20030924-FS	9/24/2003	N	46.8	13.7	< 10 U
MW-30	MW-30-20040414-FS	4/14/2004	N	36.6	11.8	< 10 U
MW-30	MW-30-20040922-FS	9/22/2004	N	36.2	12.1	< 10 U
MW-30	MW-30-20050928-FS	9/28/2005	N	59.6	15.6	< 10 U
MW-30	MW-30-20061012-FS	10/12/2006	N	53	15	< 10 U
MW-30	MW-30-20070920-FS	9/20/2007	N	39	11	< 10 U
MW-30	MW-30-20081210-FS	12/10/2008	N	37	11	< 5 U
MW-30	MW-30-20101103-FS	11/3/2010	N	50	15	< 5 U
MW-30	MW-30-20111026-FS	10/26/2011	N	57	16	< 5 U
MW-30	MW-30-20120418-FS	4/18/2012	N	150	32	< 5 U
MW-30	MW-30-20121018	10/18/2012	N	65	19	< 2.0 U
MW-30	MW-30-20130425	4/25/2013	N	49	18	0.49 J
MW-30	MW-30-101413	10/14/2013	N	40	16	< 2.0 U
MW-31	MW-31-20010105-FS	1/5/2001	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010326-FS	3/26/2001	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20020911-FS	9/11/2002	N	< 5 U	< 5 U	< 10 U
MW-31	ITMW-31-20030228-FS	2/28/2003	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-31	MW-31-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050405-FS	4/5/2005	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20050927-FS	9/27/2005	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20060315-FS	3/15/2006	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20061011-FS	10/11/2006	N	3 J	< 5 U	< 10 U
MW-31	MW-31-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20070918-FS	9/18/2007	N	< 5 U	< 5 U	< 10 U
MW-31	MW-31-20080430-FS	4/30/2008	N	2 J	< 5 U	< 10 U
MW-31	MW-31-20081211-FS	12/11/2008	N	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20090425-FS	4/25/2009	N	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20100512-FS	5/12/2010	N	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20101107-FS	11/7/2010	N	48	< 5 U	< 5 U
MW-31	MW-31-20110323-FS	3/23/2011	N	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-31	MW-31-20121019	10/19/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-101813	10/18/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	DUP-1-201407	7/30/2014	FD	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-201407	7/30/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-31	MW-31-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-GW-20150119	1/19/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-201507	7/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-31R	MW-31R-201604	4/18/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-32	MW-32-20010105-FS	1/5/2001	N	108	< 5 U	< 10 U
MW-32	MW-32-20010327-FS	3/27/2001	N	174	< 5 U	< 10 U
MW-32	MW-32-20010913-FS	9/13/2001	N	95	< 5 U	< 10 U
MW-32	MW-32-20020911-FS	9/11/2002	N	109	< 5 U	< 10 U
MW-32	ITMW-32-20030228-FS	2/28/2003	N	133	< 5 U	< 10 U
MW-32	MW-32-20030925-FS	9/25/2003	N	32.3	< 5 U	< 10 U
MW-32	MW-32-20040415-FS	4/15/2004	N	76.9	< 5 U	< 10 U
MW-32	MW-32-20040923-FS	9/23/2004	N	51.4	< 5 U	< 10 U
MW-32	MW-32-20050405-FS	4/5/2005	N	158	< 5 U	< 10 U
MW-32	MW-32-20050927-FS	9/27/2005	N	97.6	< 5 U	< 10 U
MW-32	MW-32-20060315-FS	3/15/2006	N	111	< 5 U	< 10 U
MW-32	MW-32-20061012-FS	10/12/2006	N	85	4 J	< 10 U
MW-32	MW-32-20070419-FS	4/19/2007	N	66.3	10.1	< 10 U
MW-32	MW-32-20070918-FS	9/18/2007	N	78	< 5 U	< 10 U
MW-32	MW-32-20080430-FS	4/30/2008	N	70 0	2 J	< 10 U
MW-32	MW-32-20081211-FS	12/11/2008	N	60	< 5 U	< 5 U
MW-32	MW-32-20090425-FS	4/25/2009	N	47	< 5 U	< 5 U
MW-32	MW-32-20091028-FS	10/28/2009	N	68	1.8 J	< 5 U
MW-32	MW-32-20100512-FS	5/12/2010	N	58	< 5 U	< 5 U
MW-32	MW-32-20101106-FS	11/6/2010	N	120	< 5 U	< 5 U
MW-32	MW-32-20110324-FS	3/24/2011	N	66	1.4 J	< 5 U
MW-32	MW-32-20111026-FS	10/26/2011	N	73	< 5 U	< 5 U
MW-32	MW-32-20121019	10/19/2012	N	61	1.2 J	< 2.0 U
MW-32	MW-32-101813	10/18/2013	N	48	1.4 J	< 2.0 U
MW-32	MW-32-20140308	3/8/2014	N	36.8	1.1 J	< 2.0 U
MW-32	MW-32-201405	5/13/2014	N	33.1	0.19 J	< 2.0 U
MW-32	MW-32-201407	7/29/2014	N	37.2	1.0 J	< 2.0 U
MW-32	MW-32-201410	10/14/2014	N	29.7	0.80 J	< 2.0 U
MW-32	MW-32-201501	1/14/2015	N	20.2	0.55 J	< 1.0 U
MW-32R	MW-32R-GW-20150119	1/19/2015	N	12.9	< 1.0 U	< 1.0 U
MW-32R	MW-32R-201504	4/15/2015	N	11.2	< 1.0 U	< 1.0 U
MW-32R	MW-32R-201507	7/21/2015	N	7.4	0.29 J	< 1.0 U
MW-32R	MW-32R-201510	10/7/2015	N	8.2	0.37 J	< 1.0 U
MW-32R	MW-32R-201601	1/12/2016	N	13.1	0.45 J	< 1.0 U
MW-32R	MW-32R-201604	4/18/2016	N	8.8	< 1.0 U	< 1.0 U
MW-33	MW-33-20010105-FS	1/5/2001	N	120	< 5 U	< 10 U
MW-33	MW-33-20010327-FS	3/27/2001	N	260	7	< 10 U
MW-33	MW-33-20010913-FS	9/13/2001	N	310	8	< 10 U
MW-33	MW-33-20020911-FS	9/11/2002	N	450	8	< 10 U
MW-33	ITMW-33-20030228-FS	2/28/2003	N	274	6.62	< 10 U
MW-33	MW-33-20030925-FS	9/25/2003	N	198	5.95	< 10 U
MW-33	MW-33-20040415-FS	4/15/2004	N	871	21.3	< 10 U
MW-33	MW-33-20040923-FS	9/23/2004	N	798	15.3	< 10 U
MW-33	MW-33-20050405-FS	4/5/2005	N	1430	24.5	< 10 U
MW-33	MW-33-20050927-FS	9/27/2005	N	1030	15.2	< 10 U
MW-33	MW-33-20060315-FS	3/15/2006	N	1610	20.5	< 10 U
MW-33	MW-33-20061012-FS	10/12/2006	N	1300	19	< 10 U
MW-33	MW-33-20070419-FS	4/19/2007	N	1430	9.2 J	< 50 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-33	MW-33-20070918-FS	9/18/2007	N	1700	25	< 10 U
MW-33	MW-33-20080430-FS	4/30/2008	N	1100 0	16 0	< 10 U
MW-33	MW-33-20081211-FS	12/11/2008	N	1200	18	< 5 U
MW-33	MW-33-20090425-FS	4/25/2009	N	1200	19	< 5 U
MW-33	MW-33-20090527-FS	5/27/2009	N	1000	19	< 5 U
MW-33	MW-33-20091028-FS	10/28/2009	N	1200	20	< 5 U
MW-33	MW-33-20100512-FS	5/12/2010	N	1100	21	< 5 U
MW-33	MW-33-20101106-FS	11/6/2010	N	1200	17	< 5 U
MW-33	MW-33-20110304-FS	3/4/2011	N	500	14	< 5.0 U
MW-33	MW-33-20110523-FS	5/23/2011	N	1300	18	
MW-33	MW-33-20111026-FS	10/26/2011	N	1000	16	< 5 U
MW-33	MW-33-20121019	10/19/2012	N	1300	18	0.56 J
MW-33	MW-33-101813	10/18/2013	N	1100	19	< 2.0 U
MW-33	MW-33-201403	3/8/2014	N	918	15.9	0.56 J
MW-33	MW-33-201405	5/14/2014	N	954	15.1	0.56 J
MW-33	MW-33-201407	7/29/2014	N	1600	20.8	0.59 J
MW-33	MW-33-201410	10/15/2014	N	1290	15.3	< 2.0 U
MW-33	MW-33-201501	1/14/2015	N	1080	13.9	< 1.0 U
MW-33R	MW-33R-GW-20150118	1/18/2015	N	799	9.9	< 1.0 U
MW-33R	MW-33R-201504	4/15/2015	N	570	12.2	0.37 J
MW-33R	DUP-01-201504	4/15/2015	FD	624	10.5	< 1.0 U
MW-33R	MW-33R-201507	7/22/2015	N	488	6.8	< 1.0 U
MW-33R	DUP-04-201507	7/22/2015	FD	447	6.1	< 1.0 U
MW-33R	MW-33R-201510	10/8/2015	N	562	6.1	0.31 J
MW-33R	DUP-05-201510	10/8/2015	FD	460	6.3	0.28 J
MW-33R	MW-33R-201511	11/5/2015	N	752	8.0	0.39 J
MW-33R	MW-33R-201512	12/2/2015	N	675	6.5	0.30 J
MW-33R	MW-33R-201601	1/8/2016	N	724	7.6	< 1.0 U
MW-33R	MW-33R-201604	4/18/2016	N	776	6.7	0.23 J
MW-34	MW-34-20010328-FS	3/28/2001	N	83	< 5 U	< 10 U
MW-34	MW-34-20010913-FS	9/13/2001	N	61	< 5 U	< 10 U
MW-34	MW-34L-20020909-FS	9/9/2002	N	84	< 5 U	< 10 U
MW-34	ITMW-34-20030228-FS	2/28/2003	N	< 5 U	< 5 U	< 10 U
MW-34	MW-34-20030925-FS	9/25/2003	N	28.4	< 5 U	< 10 U
MW-34	MW-34-20031114-FS	11/14/2003	N	121	< 5 U	< 10 U
MW-34	MW-34-20040415-FS	4/15/2004	N	119	< 5 U	< 10 U
MW-34	MW-34-20040923-FS	9/23/2004	N	81.1	< 5 U	< 10 U
MW-34	MW-34-20041209-FS	12/9/2004	N	93.3	< 5 U	< 10 U
MW-34	MW-34-20050405-FS	4/5/2005	N	65.8	< 5 U	< 10 U
MW-34	MW-34-20050930-FS	9/30/2005	N	83.7	< 5 U	< 10 U
MW-34	MW-34-20060314-FS	3/14/2006	N	77.1	< 5 U	< 10 U
MW-34	MW-34-20061011-FS	10/11/2006	N	63	4 J	< 10 U
MW-34	MW-34-20070418-FS	4/18/2007	N	41	9.79	< 10 U
MW-34	MW-34-20070919-FS	9/19/2007	N	61	< 5 U	< 10 U
MW-34	MW-34-20080430-FS	4/30/2008	N	32 0	< 5 U	< 10 U
MW-34	MW-34-20081210-FS	12/10/2008	N	53	< 5 U	< 5 U
MW-34	MW-34-20090424-FS	4/24/2009	N	43	< 5 U	< 5 U
MW-34	MW-34-20090527-FS	5/27/2009	N	12	< 5 U	< 5 U
MW-34	MW-34-20091028-FS	10/28/2009	N	34	< 5 U	< 5 U
MW-34	MW-34-20100512-FS	5/12/2010	N	38	< 5 U	< 5 U
MW-34	DUP-01-20101107-FD	11/7/2010	FD	70	< 5 U	< 5 U
MW-34	MW-34-20101107-FS	11/7/2010	N	73	< 5 U	< 5 U
MW-34	DUP-2-20110324-FD	3/24/2011	FD	40	< 5 U	< 5 U
MW-34	MW-34-20110324-FS	3/24/2011	N	42	< 5 U	< 5 U
MW-34	MW-34-20111026-FS	10/26/2011	N	56	< 5 U	< 5 U
MW-34	MW-34-20121020	10/20/2012	N	90	1.6 J	< 2.0 U
MW-34	MW-34-101713	10/17/2013	N	43	0.90 J	< 2.0 U
MW-34	MW-34-20140308	3/8/2014	N	28.7	0.61 J	< 2.0 U
MW-34	MW-34-201405	5/13/2014	N	19.9	< 5.0 U	< 2.0 U
MW-34	MW-34-201407	7/29/2014	N	78.2	1.7 J	< 2.0 U
MW-34	MW-34-201410	10/15/2014	N	47.7	0.96 J	< 2.0 U
MW-34	MW-34-201501	1/13/2015	N	22.0	< 1.0 U	< 1.0 U
MW-34	MW-34-201504	4/14/2015	N	13.8	< 1.0 U	< 1.0 U
MW-34R	MW-34R-201507	7/21/2015	N	3.5	< 1.0 U	< 1.0 U
MW-34R	MW-34R-201510	10/8/2015	N	4.5	0.16 J	< 1.0 U
MW-34R	MW-34R-201601	1/11/2016	N	2.6	0.30 J	< 1.0 U
MW-34R	MW-34R-201605	5/3/2016	N	2.5	0.56 J	< 1.0 U
MW-35R	MW-35-20010328-FS	3/28/2001	N	960	34	< 10 U
MW-35R	MW-35-20010913-FS	9/13/2001	N	1030	40	< 20 U
MW-35R	MW-35L-20020909-FS	9/9/2002	N	900	31	< 10 U
MW-35R	ITMW-35-20030228-FS	2/28/2003	N	246	15.1	< 10 U
MW-35R	MW-35-20030925-FS	9/25/2003	N	297	19.8	< 10 U
MW-35R	MW-35-20031114-FS	11/14/2003	N	990	34.9	< 10 U
MW-35R	MW-35-20040415-FS	4/15/2004	N	1150	45.8	< 10 U
MW-35R	MW-35-20040923-FS	9/23/2004	N	685	28.4	< 10 U
MW-35R	MW-35-20041209-FS	12/9/2004	N	880	42	< 10 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-35R	MW-35-20050406-FS	4/6/2005	N	886	35	< 10 U
MW-35R	MW-35-20050930-FS	9/30/2005	N	804	29.3	< 10 U
MW-35R	MW-35-20060314-FS	3/14/2006	N	858	24.2	< 10 U
MW-35R	MW-35R-20060406-FS	4/6/2006	N	1540	52.5	< 10 U
MW-35R	MW-35R-20061011-FS	10/11/2006	N	910	29	< 10 U
MW-35R	MW-35-20070418-FS	4/18/2007	N	900	27.6	< 10 U
MW-35R	MW-35-20070919-FS	9/19/2007	N	1100	28	< 10 U
MW-35R	MW-35R-20080430-FS	4/30/2008	N	1100 0	33 0	< 10 U
MW-35R	MW-35R-20081211-FS	12/11/2008	N	790	27	< 5 U
MW-35R	MW-35R-20090424-FS	4/24/2009	N	1100	37	< 5 U
MW-35R	MW-35R-20090507-FS	5/7/2009	N	< 5 U	< 5 U	< 5 U
MW-35R	MW-35-20090527-FS	5/27/2009	N	< 5 U	< 5 U	< 5 U
MW-35R	MW-35R-20101105-FS	11/5/2010	N	240	9.9	< 5 U
MW-35R	MW-35R-20110304-FS	3/4/2011	N	180	8.4	< 5.0 U
MW-35R	MW-35R-20110523-FS	5/23/2011	N	260	13	
MW-35R	MW-35R-20111025-FS	10/25/2011	N	280	12	< 5 U
MW-35R	MW-35R-20121020	10/20/2012	N	280	10	< 2.0 U
MW-35R	MW-35R-101713	10/17/2013	N	200	12	< 2.0 U
MW-35R	MW-35R-101713-DUP	10/17/2013	FD	220	13	
MW-35R	MW-35R-201403	3/8/2014	N	345	14.9	< 2.0 U
MW-35R	MW-35R-201405	5/13/2014	N	183	6.1	< 2.0 U
MW-35R	MW-35R-201407	7/30/2014	N	64.7	2.8 J	< 2.0 U
MW-35R	MW-35R-201410	10/14/2014	N	79.2	2.6 J	< 2.0 U
MW-35R	MW-35R-201501	1/13/2015	N	10.9	< 1.0 U	< 1.0 U
MW-35R	MW-35R-201504	4/14/2015	N	39.5	1.3	< 1.0 U
MW-35R	MW-35R-201507	7/21/2015	N	33.7	1.0	< 1.0 U
MW-35R	MW-35R-201510	10/7/2015	N	15.4	0.58 J	< 1.0 U
MW-35R	MW-35R-201511	11/4/2015	N	23.6	0.36 J	< 1.0 U
MW-35R	MW-35R-201512	12/2/2015	N	0.89 J	< 1.0 U	< 1.0 U
MW-35R	MW-35R-201601	1/11/2016	N	13.2	0.34 J	< 1.0 U
MW-35R	MW-35R-201605	5/3/2016	N	19.3	0.49 J	< 1.0 U
MW-36	MW-36-20010328-FS	3/28/2001	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20010913-FS	9/13/2001	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36L-20020909-FS	9/9/2002	N	< 5 U	< 5 U	< 10 U
MW-36	ITMW-36-20030228-FS	2/28/2003	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20031114-FS	11/14/2003	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050406-FS	4/6/2005	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20060317-FS	3/17/2006	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20061011-FS	10/11/2006	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070418-FS	4/18/2007	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20070920-FS	9/20/2007	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20080430-FS	4/30/2008	N	< 5 U	< 5 U	< 10 U
MW-36	MW-36-20081211-FS	12/11/2008	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090507-FS	5/7/2009	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090508-FS	5/8/2009	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20090528-FS	5/28/2009	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20091028-FS	10/28/2009	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20100512-FS	5/12/2010	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20101107-FS	11/7/2010	N	9.9	< 5 U	< 5 U
MW-36	MW-36-20110324-FS	3/24/2011	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-36	MW-36-20121019	10/19/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-36	MW-36-101713	10/17/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-36	MW-36-201403	3/6/2014	N	0.22 J	< 5.0 U	< 2.0 U
MW-36	MW-36-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-36	MW-36-201407	7/29/2014	N	0.61 J	< 5.0 U	< 2.0 U
MW-36	MW-36-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-36	MW-36-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-36	MW-36-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-36R	MW-36R-201507	7/20/2015	N	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
MW-36R	MW-36R-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-36R	MW-36R-201601	1/11/2016	N	0.31 J	< 1.0 U	< 1.0 U
MW-36R	MW-36R-201605	5/3/2016	N	1.7	< 1.0 U	< 1.0 U
MW-37	MW-37-20010914-FS	9/14/2001	N	5000	340	< 100 U
MW-37	MW-37-20011120-FS	11/20/2001	N	< 5 U	< 5 U	< 10 U
MW-37	MW-37-20020911-FS	9/11/2002	N	1400	10000	300
MW-37	ITMW-37-20030227-FS	2/27/2003	N	4050	5660	2500
MW-37	MW-37-20030717-FS	7/17/2003	N	2560	1710	316
MW-37	MW-37-20030924-FS	9/24/2003	N	3700	7020	973
MW-37	MW-37-20040413-FS	4/13/2004	N	5190	3160	1180
MW-37	MW-37-20040921-FS	9/21/2004	N	5030	5650	1370

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-37	MW-37-20050405-FS	4/5/2005	N	5310	2360	1030 E
MW-37	MW-37-20050929-FS	9/29/2005	N	6780	3210	910 E
MW-37	MW-37-20060316-FS	3/16/2006	N	11200	5020	1730
MW-37	MW-37-20061013-FS	10/13/2006	N	13000	5300	1200
MW-37	DUP-3-20061013-FD	10/13/2006	FD	13000	5000	1200
MW-37	MW-37-20070419-FS	4/19/2007	N	9490	3010	780
MW-37	MW-37-20070921-FS	9/21/2007	N	22000	9100	2800
MW-37	MW-37-20080430-FS	4/30/2008	N	16000 0	3300 0	1800 0
MW-37	MW-37-20081210-FS	12/10/2008	N	24000	6300	1800
MW-37	MW-37-20090427-FS	4/27/2009	N	11000	3200	1200
MW-37	MW-37-20091027-FS	10/27/2009	N	37000	7400	2200
MW-37	MW-37-20100511-FS	5/11/2010	N	33000	7200	2400
MW-37	MW-37-20101104-FS	11/4/2010	N	54000	10000	2200
MW-37	MW-37-20110322-FS	3/22/2011	N	36000	6000	2300
MW-37	MW-37-20111026-FS	10/26/2011	N	57000	9700	2500
MW-37	MW-37-20120418-FS	4/18/2012	N	29000	5300	2100
MW-37	MWF-37-20121019	10/19/2012	N	4800	1100	230
MW-37	MW-37-20130425	4/25/2013	N	1700	900	230
MW-37	MW-37-101713	10/17/2013	N	1100	1500	1300
MW-37	MW-37-201904	4/24/2019	N	8080	1410	375
MW-37	MW-37-201910	10/24/2019	N	12100	1950	662
MW-37	MW-37-202005	5/13/2020	N	4210	< 1.0 U	499
MW-37	MW-37-202010	10/8/2020	N	3990	648	186
MW-38	MW-38-20010914-FS	9/14/2001	N	620	90	< 20 U
MW-38	MW-38-20050929-FS	9/29/2005	N	< 5 U	98.9	2150
MW-38	MW-38-20061013-FS	10/13/2006	N	26	130	2000 J
MW-38	MW-38-20081210-FS	12/10/2008	N	44	110	1400
MW-38	MW-38-20111026-FS	10/26/2011	N	580	870	1100
MW-38	MW-38-20121018	10/18/2012	N	1000	750	700
MW-38	MW-38-101613	10/16/2013	N	2300	1200	560
MW-38	MW-38-201403	3/8/2014	N	1790	535	68.4
MW-38	DUP1-201405	5/14/2014	FD	2040	426 J	98.2
MW-38	MW-38-201405	5/14/2014	N	1650	428	97.9
MW-38	MW-38-201407	7/31/2014	N	1720	637	197
MW-38	MW-38-201410	10/16/2014	N	6750	781	321
MW-38	DUP-06-201410	10/16/2014	FD	6970	869	370
MW-38	MW-38-20141204	12/4/2014	N	3190	697	193
MW-38	MW-38-201501	1/15/2015	N	5440	1900	133
MW-38	DUP-06-201501	1/15/2015	FD	3910	1190	143
MW-38	MW-38-201504	4/16/2015	N	3060	2060	33.7
MW-38	MW-38-201507	7/23/2015	N	3420	1340	119
MW-38	MW-38-201510	10/8/2015	N	2740	1340	190
MW-38	MW-38-201601	1/13/2016	N	3680	1180	84.3
MW-38	MW-38-201605	5/5/2016	N	3040	950	18.1
MW-38	MW-38-201611	11/10/2016	N	2860	1070	597
MW-38	MW-38-201704	4/28/2017	N	2550	949	23.9
MW-38	MW-38-201710	10/26/2017	N	2240	823	< 1.0 U
MW-38	MW-38-201804	4/19/2018	N	2560	777	23.6
MW-38	MW-38-201811	11/15/2018	N	2340	675	360
MW-38	MW-38-201904	4/25/2019	N	1760	388	15.9
MW-38	DUP-02-201904	4/25/2019	FD	1890	416	14.1
MW-38	MW-38-201910	10/23/2019	N	2180	542	307
MW-38	MW-38-202005	5/14/2020	N	10500	295	5.2
MW-38	MW-38-202010	10/7/2020	N	1110	353	237
MW-38	MW-38-202104	4/13/2021	N	1280	260	7.3
MW-38	DUP-06-202104	4/13/2021	FD	1340	265	6.8
MW-38	MW-38-202110	10/21/2021	N	5830	1060	204
MW-38	MW-38-202204	4/14/2022	N	816	257	< 1.0 U
MW-38	MW-38-202210_4073	10/20/2022	N	1250	695	541
MW-38	MW-38-202304	4/20/2023	N	963	234	12.7
MW-38	MW-38-202310	10/19/2023	N	108	2.2	< 1.0 U
MW-38	MW-38-202404	4/18/2024	N	1850	396	13.8
MW-38	MW-38-202410	10/11/2024	N	720	310	220
MW-39	MW-39-20030718-FS	7/18/2003	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20031114-FS	11/14/2003	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050408-FS	4/8/2005	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20060317-FS	3/17/2006	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20061011-FS	10/11/2006	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070418-FS	4/18/2007	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20080430-FS	4/30/2008	N	< 5 U	< 5 U	< 10 U
MW-39	MW-39-20081209-FS	12/9/2008	N	< 5 U	< 5 U	< 5 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-39	MW-39-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20101107-FS	11/7/2010	N	20	< 5 U	< 5 U
MW-39	MW-39-20110324-FS	3/24/2011	N	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-39	MW-39-20121019	10/19/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-39	MW-39-101813	10/18/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-39	MW-39-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-39	MW-39-201405	5/13/2014	N	0.23 J	< 5.0 U	< 2.0 U
MW-39	MW-39-201407	7/29/2014	N	0.79 J	< 5.0 U	< 2.0 U
MW-39	MW-39-201410	10/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-39	MW-39-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39	MW-39-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201507	7/20/2015	N	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
MW-39R	MW-39R-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201611	11/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	FD-05-201710	10/25/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201811	11/15/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	DUP-05-202005	5/12/2020	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202110	10/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202304	4/19/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-39R	MW-39R-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40	MW-40-20030718-FS	7/18/2003	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20030925-FS	9/25/2003	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20031114-FS	11/14/2003	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40 DUP-1-20031114-FD	11/14/2003	FD	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040415-FS	4/15/2004	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050407-FS	4/7/2005	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20050929-FS	9/29/2005	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20060314-FS	3/14/2006	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20061010-FS	10/10/2006	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070418-FS	4/18/2007	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20070918-FS	9/18/2007	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20080428-FS	4/28/2008	N	< 5 U	< 5 U	< 10 U
MW-40	MW-40-20081211-FS	12/11/2008	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20090527-FS	5/27/2009	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20091029-FS	10/29/2009	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20100512-FS	5/12/2010	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20101104-FS	11/4/2010	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20110323-FS	3/23/2011	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-40	MW-40-20120418-FS	4/18/2012	N	3.9 J	< 5 U	< 5 U
MW-40	MW-40-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-20130423	4/23/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-201405	5/12/2014	N	0.76 J	< 5.0 U	< 2.0 U
MW-40	MW-40-201407	7/29/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-201410	10/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-40	MW-40-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40	MW-40-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201507	7/20/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201510	10/6/2015	N	0.30 J	0.23 J	< 1.0 U
MW-40R	DUP-03-201510	10/6/2015	FD	0.83 J	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	DUP-06-201601	1/12/2016	FD	0.28 J	0.22 J	< 1.0 U
MW-40R	MW-40R-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201611	11/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201710	10/24/2017	N	0.31 J	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-40R	MW-40R-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202210	10/19/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-40R	MW-40R-202410	10/10/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-41	MW-41-20030718-FS	7/18/2003	N	972	50.6	< 10 U
MW-41	MW-41 DUP-1-20030718-FD	7/18/2003	FD	964	45.5	< 10 U
MW-41	MW-41-20030925-FS	9/25/2003	N	722	37.8	< 10 U
MW-41	MW-41-20031114-FS	11/14/2003	N	331	205	< 10 U
MW-41	MW-41-20040415-FS	4/15/2004	N	760	54.2	< 10 U
MW-41	MW-41-20040923-FS	9/23/2004	N	1060	48	< 10 U
MW-41	MW-41-20050407-FS	4/7/2005	N	1170	58	< 10 U
MW-41	MW-41-20050930-FS	9/30/2005	N	1120	55.8	< 10 U
MW-41	MW-41-20060317-FS	3/17/2006	N	917	52.5	< 10 U
MW-41	MW-41-20061013-FS	10/13/2006	N	970	43	< 10 UJ
MW-41	MW-41-20070418-FS	4/18/2007	N	900	30.1	< 10 U
MW-41	MW-41-20070920-FS	9/20/2007	N	850	32	< 10 U
MW-41	MW-41-20080430-FS	4/30/2008	N	730 0	31 0	< 10 U
MW-41	MW-41-20081211-FS	12/11/2008	N	820	29	< 5 U
MW-41	MW-41-20090424-FS	4/24/2009	N	660	25	< 5 U
MW-41	MW-41-20090507-FS	5/7/2009	N	180	4.7 J	< 5 U
MW-41	MW-41-20090508-FS	5/8/2009	N	180	4.7 J	< 5 U
MW-41	MW-41-20090527-FS	5/27/2009	N	230	16	< 5 U
MW-41	MW-41-20091028-FS	10/28/2009	N	180	4 J	< 5 U
MW-41	MW-41-20100513-FS	5/13/2010	N	610	19	< 5 U
MW-41	MW-41-20101105-FS	11/5/2010	N	930	31	< 5 U
MW-41	MW-41-20110304-FS	3/4/2011	N	120	20	< 5.0 U
MW-41	MW-41-20110523-FS	5/23/2011	N	370	15	
MW-41	MW-41-20111025-FS	10/25/2011	N	420	18	< 5 U
MW-41	MW-41-20121020	10/20/2012	N	620	23	< 2.0 U
MW-41	DUP-3-20121020	10/20/2012	FD	550	21	< 2.0 U
MW-41	MW-41-101613	10/16/2013	N	520	24	< 2.0 U
MW-41	MW-41-201403	3/7/2014	N	501	19.7	0.68 J
MW-41	MW-41-201405	5/14/2014	N	518	18.0	0.50 J
MW-41	MW-41-201407	7/30/2014	N	480	19.7	< 2.0 U
MW-41	DUP-2-201407	7/30/2014	FD	511	19.1	< 2.0 U
MW-41	MW-41-201410	10/15/2014	N	491	16.9	< 2.0 U
MW-41	MW-41-201501	1/14/2015	N	425	15.6	< 1.0 U
MW-41	MW-41-201504	4/15/2015	N	386	15.2	0.27 J
MW-41	DUP-02-201504	4/15/2015	FD	410	13.5	< 1.0
MW-41R	MW-41R-201507	7/21/2015	N	40.4	3.3	< 1.0 U
MW-41R	DUP-03-201507	7/21/2015	FD	43.0	2.8	< 1.0 U
MW-41R	MW-41R-201510	10/6/2015	N	48.7	36.7	0.39 J
MW-41R	DUP-07-201510	10/6/2015	FD	46.4	35.2	0.33 J
MW-41R	MW-41R-201601	1/12/2016	N	59.9	40.9	0.38 J
MW-41R	DUP-07-201601	1/12/2016	FD	56.6	40.1	0.35 J
MW-41R	MW-41R-201605	5/3/2016	N	87.8	17.3	0.18 J
MW-41R	DUP-03-201605	5/3/2016	FD	82.9	17.5	0.20 J
MW-42B	MW-42 B-20031114-FS	11/14/2003	N	481	21.1	< 10 U
MW-42B	MW-42-20040415-FS	4/15/2004	N	856	29.3	< 10 U
MW-42B	MW-42-20040923-FS	9/23/2004	N	400	19.8	< 10 U
MW-42B	MW-42-20050405-FS	4/5/2005	N	1310	32	< 10 U
MW-42B	MW-42-20050927-FS	9/27/2005	N	1470	27.3	< 10 U
MW-42B	MW-42-20060315-FS	3/15/2006	N	2270	37.2	< 10 U
MW-42B	MW-42-20061010-FS	10/10/2006	N	2000	35	2 J
MW-42B	MW-42-20070417-FS	4/17/2007	N	1600	36.8	< 10 U
MW-42B	MW-42B-20070918-FS	9/18/2007	N	2100	39	4 J
MW-42B	MW-42B-20080429-FS	4/29/2008	N	1600 0	33 0	3 J
MW-42B	MW-42B-20081209-FS	12/9/2008	N	1100	30	< 5 U
MW-42B	MW-42B-20090425-FS	4/25/2009	N	1500	35	< 5 U
MW-43	MW-43-20031114-FS	11/14/2003	N	223	18.5	< 10 U
MW-43	MW-43-20040415-FS	4/15/2004	N	510	12.1	< 10 U
MW-43	MW-43-20040923-FS	9/23/2004	N	64.7	6.31	< 10 U
MW-43	MW-43-20050405-FS	4/5/2005	N	304	11.9	< 10 U
MW-43	MW-43-20050927-FS	9/27/2005	N	518	21.3	< 10 U
MW-43	MW-43-20060315-FS	3/15/2006	N	1300	35	< 10 U
MW-43	MW-43-20061011-FS	10/11/2006	N	920	30	< 10 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
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Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-43	MW-43-20070417-FS	4/17/2007	N	220	14.1	< 10 U
MW-43	MW-43-20070918-FS	9/18/2007	N	350	13	< 10 U
MW-43	MW-43-20080428-FS	4/28/2008	N	120 0	4 J	< 10 U
MW-43	MW-43-20081209-FS	12/9/2008	N	150	5.3	< 5 U
MW-43	MW-43-20090425-FS	4/25/2009	N	120	< 5 U	< 5 U
MW-43	MW-43-20090507-FS	5/7/2009	N	180	6	< 5 U
MW-43	MW-43-20090508-FS	5/8/2009	N	180	6	< 5 U
MW-46R	MW-46-20031114-FS	11/14/2003	N	39.9	< 5 U	< 10 U
MW-46R	MW-46-20040415-FS	4/15/2004	N	77.1	27.2	< 10 U
MW-46R	MW-46-20040923-FS	9/23/2004	N	142	21.2	< 10 U
MW-46R	MW-46-20050406-FS	4/6/2005	N	210	28.4	< 10 U
MW-46R	MW-46-20050928-FS	9/28/2005	N	222	15.6	< 10 U
MW-46R	MW-46-20060316-FS	3/16/2006	N	111	6.37	< 10 U
MW-46R	MW-46R-20060406-FS	4/6/2006	N	300	< 5 U	< 10 U
MW-46R	MW-46-20061011-FS	10/11/2006	N	450	8	< 10 U
MW-46R	MW-46R-20070417-FS	4/17/2007	N	440	12.5	< 10 U
MW-46R	MW-46R-20070918-FS	9/18/2007	N	420	9	< 10 U
MW-46R	MW-46R-20080429-FS	4/29/2008	N	430 0	8 0	< 10 U
MW-46R	MW-46R-20081209-FS	12/9/2008	N	310	19	< 5 U
MW-46R	MW-46R-20090425-FS	4/25/2009	N	460	11	< 5 U
MW-46R	MW-46-20090527-FS	5/27/2009	N	< 5 U	< 5 U	< 5 U
MW-46R	MW-46-20091027-FS	10/27/2009	N	390	12	< 5 U
MW-46R	MW-46R-20091221-FS	12/21/2009	N	410	10	< 5.0 U
MW-46R	MW-46R-20100511-FS	5/11/2010	N	610	13	< 5 U
MW-46R	MW-46R-20101105-FS	11/5/2010	N	650	12	< 5 U
MW-46R	MW-46R-20110307-FS	3/7/2011	N	670	14	< 5.0 U
MW-46R	MW-46R-20110322-FS	3/22/2011	N	680	11	< 5 U
MW-46R	MW-46R-20110523-FS	5/23/2011	N	610	13	
MW-46R	MW-46-20111026-FS	10/26/2011	N	460	10	< 5 U
MW-46R	MW-46-20120418-FS	4/18/2012	N	680	14	< 5 U
MW-46R	MW-46R-20121020	10/20/2012	N	410	7.9	0.44 J
MW-46R	MW-46R-20130423	4/23/2013	N	470	7.6	0.91 J
MW-46R	MW-46R-10182013	10/18/2013	N	410	11	< 2.0 U
MW-46R	MW-46R-201403	3/7/2014	N	469	12.8	0.46 J
MW-46R	MW-46R-201405	5/14/2014	N	471	12.8	0.76 J
MW-46R	MW-46R-201407	7/29/2014	N	472	13.7	0.64 J
MW-46R	MW-46R-201410	10/16/2014	N	410	24.6	< 2.0 U
MW-46R	DUP-03-201410	10/16/2014	FD	373	25.2	< 2.0 U
MW-46R	MW-46R-201501	1/13/2015	N	452	11.6	0.71 J
MW-46R	DUP-03-201501	1/13/2015	FD	428	12.0	0.90 J
MW-46R	MW-46R-201504	4/14/2015	N	220 J	13.8	0.47 J
MW-46R	DUP-07-201504	4/14/2015	FD	482	13.9	0.51 J
MW-46R	MW-46R-201507	7/21/2015	N	460	11.2	0.37 J
MW-46R	DUP-05-201507	7/21/2015	FD	444	10.3	0.40 J
MW-46R	MW-46R-201510	10/7/2015	N	371	10.2	0.43 J
MW-46R	MW-46R-201601	1/12/2016	N	432	10.9	0.56 J
MW-46R	MW-46R-201605	5/3/2016	N	445	12.6	0.40 J
MW-46R	DUP-10-201605	5/3/2016	FD	461	11.1	0.52 J
MW-46R	MW-46R-201611	11/8/2016	N	411	10.3	0.79 J
MW-46R	MW-46R-201704	4/27/2017	N	486	12.4	0.47 J
MW-46R	MW-46R-201710	10/24/2017	N	408	10.7	0.51 J
MW-46R	MW-46R-201804	4/18/2018	N	520	12.6	0.56 J
MW-46R	MW-46R-201811	11/14/2018	N	603	14.4	1.2
MW-46R	MW-46R-201904	4/24/2019	N	560 M1	13.4 J-	0.46 J
MW-46R	MW-46R-201910	10/23/2019	N	555	22.1	0.69 J
MW-46R	DUP-03-201910	10/23/2019	FD	560	16.5	0.56 J
MW-46R	MW-46R-202005	5/12/2020	N	483	14.2	0.54 J
MW-46R	MW-46R-202010	10/8/2020	N	460	14.6	2.1
MW-46R	MW-46R-202104	4/14/2021	N	466	16.2	1.1
MW-46R	MW-46R-202110	10/21/2021	N	461	30.8	0.63 J
MW-46R	MW-46R-202204	4/14/2022	N	471	11.6	< 1.0 U
MW-46R	DUP-10-202204	4/14/2022	FD	499	11.7	< 1.0 U
MW-46R	MW-46R-202210	10/20/2022	N	298	8.7	0.26 J
MW-46R	MW-46R-202304	4/20/2023	N	352	12.0	0.32 J
MW-46R	DUP-01-202304	4/20/2023	FD	353	11.6	0.31 J
MW-46R	MW-46R-202310	10/19/2023	N	288	8.8	0.47 J
MW-46R	MW-46R-202404	4/18/2024	N	253	8.2	0.34 J
MW-46R	DUP-08-202404	4/18/2024	FD	224	8.0	0.35 J
MW-46R	MW-46R-202411	11/19/2024	N	120	2.7	< 1.0 U
MW-50	MW-50-20040415-FS	4/15/2004	N	6.51	< 5 U	< 10 U
MW-50	NW-50-20040923-FS	9/23/2004	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20041210-FS	12/10/2004	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050406-FS	4/6/2005	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20050928-FS	9/28/2005	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20060317-FS	3/17/2006	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-50	MW-50-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-50	MW-50-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20101105-FS	11/5/2010	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20110323-FS	3/23/2011	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20111025-FS	10/25/2011	N	< 5 U	< 5 U	< 5 U
MW-50	MW-50-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-50	MW-50-101613	10/16/2013	N	1.6 J	< 5.0 U	< 2.0 U
MW-50	MW-50-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-50	MW-50-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-50	MW-50-201407	7/28/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-50	MW-50-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-50	MW-50-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-50	MW-50-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-50	MW-50-201710	10/23/2017	N	0.26 J	< 1.0 U	< 1.0 U
MW-50	MW-50-202104	4/14/2021	N	1.3	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201507	7/21/2015	N	0.22 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201510	10/6/2015	N	0.35 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201601	1/11/2016	N	0.42 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201605	5/2/2016	N	0.46 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201611	11/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201804	4/17/2018	N	0.61 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201811	11/13/2018	N	0.73 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201904	4/23/2019	N	0.72 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-201910	10/23/2019	N	0.61 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-202005	5/12/2020	N	0.66 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-202010	10/5/2020	N	0.98 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-202110	10/19/2021	N	0.61 J	< 1.0 U	< 1.0 U
MW-50R	MW-50R-202204	4/13/2022	N	1.4	0.17 J	< 1.0 U
MW-50R	MW-50R-202210_3494	10/18/2022	N	1.1	< 1.0 U	< 1.0 U
MW-50R	MW-50R-202304	4/18/2023	N	1.9	0.18 J	< 1.0 U
MW-50R	MW-50R-202310	10/17/2023	N	1.6	0.16 J	< 1.0 U
MW-50R	MW-50R-202404	4/17/2024	N	1.9	0.18 J	< 1.0 U
MW-50R	MW-50R-202410	10/9/2024	N	1.1	< 1.0 U	< 1.0 U
MW-55	MW-55-20041209-FS	12/9/2004	N	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050408-FS	4/8/2005	N	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20050928-FS	9/28/2005	N	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20060316-FS	3/16/2006	N	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20061013-FS	10/13/2006	N	2 J	< 5 U	< 10 UJ
MW-55	MW-55-20070419-FS	4/19/2007	N	2.6 J	< 5 U	< 10 U
MW-55	MW-55-20070919-FS	9/19/2007	N	5 J	< 5 U	< 10 U
MW-55	MW-55-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-55	MW-55-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-55	MW-55-20091027-FS	10/27/2009	N	3.6 J	< 5 U	< 5 U
MW-55	MW-55-20100512-FS	5/12/2010	N	4.2 J	< 5 U	< 5 U
MW-55	MW-55-20101106-FS	11/6/2010	N	14	< 5 U	< 5 U
MW-55	MW-55-20110323-FS	3/23/2011	N	5.5	< 5 U	< 5 U
MW-55	MW-55-20111025-FS	10/25/2011	N	7	< 5 U	< 5 U
MW-55	MW-55-20121020	10/20/2012	N	9.2	< 5.0 U	< 2.0 U
MW-55	MW-55-101613	10/16/2013	N	13	< 5.0 U	< 2.0 U
MW-55R	MW-55R-201507	7/20/2015	N	8.2	0.42 J	0.13 J
MW-55R	MW-55R-201510	10/6/2015	N	4.4	0.53 J	0.14 J
MW-55R	MW-55R-201601	1/12/2016	N	0.26 J	< 1.0 U	< 1.0 U
MW-55R	MW-55R-201605	5/2/2016	N	2.1	< 1.0 U	< 1.0 U
MW-55R	MW-55R-201611	11/7/2016	N	3.1	< 1.0 U	< 1.0 U
MW-55R	MW-55R-201704	4/27/2017	N	7.0	0.58 J	< 1.0 U
MW-55R	MW-55R-201710	10/25/2017	N	10.9	0.77 J	0.15 J
MW-55R	MW-55R-201804	4/18/2018	N	17.0	0.77 J	< 1.0 U
MW-55R	DUP-05-201804	4/18/2018	FD	18.1	0.82 J	0.16 J
MW-55R	MW-55R-201811	11/15/2018	N	22.3	0.91 J	< 1.0 U
MW-55R	DUP-08-201811	11/15/2018	FD	23.1	0.85 J	< 1.0 U
MW-55R	MW-55R-201904	4/25/2019	N	10.9	0.60 J	< 1.0 U
MW-55R	MW-55R-201910	10/23/2019	N	26.4	0.98 J	0.16 J
MW-55R	DUP-04-2019110	10/23/2019	FD	27.7	1.2	0.18 J
MW-55R	MW-55R-202005	5/12/2020	N	23.9	0.94 J	0.19 J
MW-55R	MW-55R-202010	10/6/2020	N	29.9	1.0	< 1.0 U
MW-55R	MW-55R-202104	4/14/2021	N	23.9	0.96 J	< 1.0 U
MW-55R	MW-55R-202110	10/19/2021	N	29.9	1.2	0.19 J
MW-55R	MW-55R-202204	4/13/2022	N	22.3	0.97 J	0.18 J
MW-55R	MW-55R-202210	10/19/2022	N	27.5	0.72 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-55R	MW-55R-202304	4/19/2023	N	25.1	0.93 J	< 1.0 U
MW-55R	DUP-10-202304	4/19/2023	FD	25.6	1.0	0.17 J
MW-55R	MW-55R-202310	10/18/2023	N	26.9	1.1	< 1.0 U
MW-55R	MW-55R-202404	4/16/2024	N	22.6	0.87 J	< 1.0 U
MW-55R	DUP-09-202404	4/16/2024	FD	23.5	0.79 J	< 1.0 U
MW-55R	MW-55R-202411	11/20/2024	N	23	1.9	< 1.0 U
MW-56	MW-56-20041210-FS	12/10/2004	N	90.2	< 5 U	< 10 U
MW-56	MW-56-20050408-FS	4/8/2005	N	88.2	< 5 U	< 10 U
MW-56	MW-56-20050928-FS	9/28/2005	N	207	< 5 U	< 10 U
MW-56	MW-56-20060316-FS	3/16/2006	N	8.7	< 5 U	< 10 U
MW-56	MW-56-20061014-FS	10/14/2006	N	110	2 J	< 10 UJ
MW-56	MW-56-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-56	MW-56-20070919-FS	9/19/2007	N	38	< 5 U	< 10 U
MW-56	MW-56-20080429-FS	4/29/2008	N	4 J	< 5 U	< 10 U
MW-56	MW-56-20081210-FS	12/10/2008	N	93	< 5 U	< 5 U
MW-56	MW-56-20090424-FS	4/24/2009	N	14	< 5 U	< 5 U
MW-56	MW-56-20091027-FS	10/27/2009	N	8.7	< 5 U	< 5 U
MW-56	MW-56-20100512-FS	5/12/2010	N	230	6.4	< 5 U
MW-56	MW-56-20110323-FS	3/23/2011	N	71	2.6 J	< 5 U
MW-56	MW-56-20111025-FS	10/25/2011	N	150	11	1.9 J
MW-56	MW-56-20121020	10/20/2012	N	470	11	< 2.0 U
MW-56	MW-56-101713	10/17/2013	N	590	17	< 2.0 U
MW-56	MW-56-201403	3/7/2014	N	618	15.3	0.15 J
MW-56	MW-56-201405	6/11/2014	N	307	17.6	0.16 J
MW-56	MW-56-201407	7/29/2014	N	516	19.3	< 2.0 U
MW-56	MW-56-201410	10/15/2014	N	408	12.1	< 2.0 U
MW-56	MW-56-201501	1/13/2015	N	326	10	< 1.0 U
MW-56	MW-56-201504	4/16/2015	N	495	8.2	< 1.0 U
MW-56R	MW-56R-201507	7/20/2015	N	156	8.0	0.31 J
MW-56R	MW-56R-201510	10/6/2015	N	278	18.1	0.42 J
MW-56R	MW-56R-201601	1/11/2016	N	408	19.2	0.32 J
MW-56R	MW-56R-201605	5/3/2016	N	734	19.7	0.52 J
MW-56R	MW-56R-201611	11/8/2016	N	679	27.8	0.37 J
MW-56R	MW-56R-201710	10/24/2017	N	815	33.8	< 1.0 U
MW-56R	MW-56R-201811	11/14/2018	N	902	21.1	0.38 J
MW-56R	MW-56R-201904	4/25/2019	N	803	20.0	0.36 J
MW-56R	DUP-03-201904	4/25/2019	FD	798	20.3	0.31 J
MW-56R	MW-56R-201910	10/23/2019	N	649	16.9	0.32 J
MW-56R	MW-56R-202005	5/12/2020	N	619	17.3	0.28 J
MW-56R	MW-56R-202010	10/6/2020	N	706	16.8	0.36 J
MW-56R	MW-56R-202110	10/21/2021	N	619	14.8	0.20 J
MW-56R	MW-56R-202210	10/20/2022	N	615	11.5	< 1.0 U
MW-56R	MW-56R-202310	10/19/2023	N	552	10.7	< 1.0 U
MW-56R	MW-56R-202410	10/10/2024	N	480 J	< 5.0 UJ	< 5.0 UJ
MW-57	MW-57-20041210-FS	12/10/2004	N	207	6.72	< 10 U
MW-57	MW-57-20050408-FS	4/8/2005	N	282	6.83	< 10 U
MW-57	MW-57-20050928-FS	9/28/2005	N	96	< 5 U	< 10 U
MW-57	MW-57-20060316-FS	3/16/2006	N	254	7.56	< 10 U
MW-57	MW-57-20061013-FS	10/13/2006	N	64	< 5 U	< 10 UJ
MW-57	MW-57-20070419-FS	4/19/2007	N	201	3.77 J	< 10 U
MW-57	MW-57-20070920-FS	9/20/2007	N	250	5 J	< 10 U
MW-57	MW-57-20080430-FS	4/30/2008	N	14 0	< 5 U	< 10 U
MW-57	MW-57-20081210-FS	12/10/2008	N	130	7.4	< 5 U
MW-57	MW-57-20090424-FS	4/24/2009	N	96	4.2 J	< 5 U
MW-57	MW-57-20091027-FS	10/27/2009	N	100	2.6 J	< 5 U
MW-57	MW-57-20100512-FS	5/12/2010	N	210	6	< 5 U
MW-57	MW-57-20110323-FS	3/23/2011	N	110	2.3 J	< 5 U
MW-57	MW-57-20111025-FS	10/25/2011	N	59	2 J	< 5 U
MW-57	MW-57-20121020	10/20/2012	N	120	5.1	< 2.0 U
MW-57	MW-57-101713	10/17/2013	N	210	7.4	< 2.0 U
MW-57	MW-57-201403	3/7/2014	N	134	3.0 J	0.14 J
MW-57	MW-57-201405	6/11/2014	N	167	4.4 J	< 2.0 U
MW-57	MW-57-201407	7/29/2014	N	308	8.2	< 2.0 U
MW-57	MW-57-201410	10/15/2014	N	172	4.2 J	< 2.0 U
MW-57	MW-57-201501	1/13/2015	N	177	5.4	< 1.0 U
MW-57	MW-57-201504	4/16/2015	N	194	4.8	< 1.0 U
MW-57R	MW-57R-201507	7/20/2015	N	409	10.6	0.53 J
MW-57R	MW-57R-201510	10/6/2015	N	400	13.0	0.42 J
MW-57R	MW-57R-201601	1/11/2016	N	422	15.7	0.48 J
MW-57R	MW-57R-201605	5/3/2016	N	425	12.8	0.51 J
MW-57R	MW-57R-201611	11/8/2016	N	441	23.0	0.44 J
MW-57R	DUP-07-201611	11/8/2016	FD	453	24.3	0.45 J
MW-57R	MW-57R-201710	10/24/2017	N	441	17.5	< 1.0 U
MW-57R	MW-57R-201811	11/14/2018	N	286	7.7	0.21 J
MW-57R	MW-57R-201904	4/25/2019	N	393	10.4	0.45 J
MW-57R	MW-57R-201910	10/23/2019	N	317	12.4	0.39 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-57R	MW-57R-202005	5/12/2020	N	61.0	1.4	< 1.0 U
MW-57R	MW-57R-202010	10/7/2020	N	327	14.2	0.41 J
MW-57R	DUP-02-202010	10/7/2020	FD	326	14.4	0.37 J
MW-57R	MW-57R-202104	4/15/2021	N	349	13.7	0.46 J
MW-57R	MW-57R-202110	10/21/2021	N	286	22.1	0.38 J
MW-57R	MW-57R-202204	4/14/2022	N	185	9.9	0.33 J
MW-57R	MW-57R-202210	10/20/2022	N	258	12.0	1.3
MW-57R	MW-57R-202304	4/20/2023	N	252	15.2	1.2
MW-57R	MW-57R-202310	10/19/2023	N	240	16.4	2.8
MW-57R	MW-57R-202404	4/18/2024	N	235	11.2	2.3
MW-57R	MW-57R-202410	10/11/2024	N	180 J	9.5 J	< 1.0 UJ
MW-58	MW-58-20041209-FS	12/9/2004	N	526	14.5	< 10 U
MW-58	MW-58-20050407-FS	4/7/2005	N	809	18.8	< 10 U
MW-58	MW-58-20050928-FS	9/28/2005	N	486	10.9	< 10 U
MW-58	MW-58-20060316-FS	3/16/2006	N	421	8.66	< 10 U
MW-58	MW-58-20061013-FS	10/13/2006	N	620	14	< 10 UJ
MW-58	MW-58-20070419-FS	4/19/2007	N	784	30.7	< 25 U
MW-58	DUP-2-20070419-FD	4/19/2007	FD	717	9.54 J	< 25 U
MW-58	MW-58-20070919-FS	9/19/2007	N	650	17	< 10 U
MW-58	DUP-1-20070919-FD	9/19/2007	FD	640	16	< 10 U
MW-58	MW-58-20080430-FS	4/30/2008	N	630 0	15 0	< 10 U
MW-58	DUP-2-20080430-FD	4/30/2008	FD	580 0	14 0	< 10 U
MW-58	MW-58-20081211-FS	12/11/2008	N	530	12	< 5 U
MW-58	DUP-1-20081211-FD	12/11/2008	FD	510	13	< 5 U
MW-58	MW-58-20090425-FS	4/25/2009	N	590	14	< 5 U
MW-58	DUP-1-20090425-FD	4/25/2009	FD	580	15	< 5 U
MW-58	MW-58-20091028-FS	10/28/2009	N	480	11	< 5 U
MW-58	DUP-2-20091028-FD	10/28/2009	FD	480	11	< 5 U
MW-58	MW-58-20100512-FS	5/12/2010	N	660	14	< 5 U
MW-58	DUP-02-20101106-FD	11/6/2010	FD	560	11	< 5 U
MW-58	MW-58-20101106-FS	11/6/2010	N	580	12	< 5 U
MW-58	MW-58-20110324-FS	3/24/2011	N	710	12	< 5 U
MW-58	DUP-1-20110324-FD	3/24/2011	FD	700	14	1.1 J
MW-58	MW-58-20121020	10/20/2012	N	440	18	0.84 J
MW-58	MW-58-101713	10/17/2013	N	410	13	1.5 J
MW-58	MW-58-101713-FD	10/17/2013	FD	420	12	1.1 J
MW-58	MW-58-201403	3/7/2014	N	293	22.3	0.93 J
MW-58	MW-58-201405	5/12/2014	N	397	12.1	0.72 J
MW-58	MW-58-201407	7/29/2014	N	399	12.7	0.76 J
MW-58	MW-58-201410	10/15/2014	N	360	10.8	0.68 J
MW-58	MW-58-201501	1/14/2015	N	385	14.7	0.71 J
MW-58	MW-58-201504	4/16/2015	N	356	19.7	1.5
MW-58R	MW-58R-201507	7/21/2015	N	337	9.5	0.57 J
MW-58R	MW-58R-201510	10/8/2015	N	299	10.5	0.55 J
MW-58R	MW-58R-201601	1/12/2016	N	312	28.7	0.67 J
MW-58R	DUP-10-201601	1/12/2016	FD	319	29.4	0.66 J
MW-58R	MW-58R-201605	5/4/2016	N	352	29.7	0.81 J
MW-58R	DUP-04-201605	5/4/2016	FD	308	25.2	0.64 J
MW-58R	MW-58R-201611	11/10/2016	N	< 1.0 U	28.5	0.85 J
MW-58R	MW-58R-201612	12/14/2016	N	265	30.3	0.61 J
MW-58R	MW-58R-201710	10/24/2017	N	360	10.0	0.65 J
MW-58R	MW-58R-201811	11/15/2018	N	312	10.2	0.43 J
MW-58R	DUP-05-201811	11/15/2018	FD	319	9.8	0.47 J
MW-58R	MW-58R-201904	4/25/2019	N	305	9.8	0.48 J
MW-58R	MW-58R-201910	10/23/2019	N	299	9.1	0.51 J
MW-58R	DUP-01-201910	10/23/2019	FD	311	9.6	0.55 J
MW-58R	MW-58R-202005	5/12/2020	N	258	8.7	0.50 J
MW-58R	MW-58R-202010	10/7/2020	N	298	9.7	0.61 J
MW-58R	MW-58R-202110	10/21/2021	N	208	8.2	< 5.0 U
MW-58R	MW-58R-202210_4073	10/20/2022	N	226	6.9	0.45 J
MW-58R	MW-58R-202310	10/19/2023	N	218	7.3	0.42 J
MW-58R	MW-58R-202410	10/11/2024	N	250	6.3	< 1.0 U
MW-60	MW-60-20050401-FS	4/1/2005	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20060317-FS	3/17/2006	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-60	MW-60-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20101104-FS	11/4/2010	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20110323-FS	3/23/2011	N	< 5 U	< 5 U	< 5 U
MW-60	MW-60-20111025-FS	10/25/2011	N	< 5 U	< 5 U	< 5 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-60	MW-60-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-60	MW-60-101513	10/15/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-60	MW-60-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-60	MW-60-201405	5/13/2014	N	0.21 J	< 5.0 U	< 2.0 U
MW-60	MW-60-201407	7/28/2014	N	1.0 J	< 5.0 U	< 2.0 U
MW-60	MW-60-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-60	MW-60-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60	MW-60-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201507	7/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201601	1/11/2016	N	0.22 J	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201710	10/24/2017	N	0.83 J	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-60R	MW-60R-202410	10/8/2024	N	< 1.0 UJ	< 1.0 UJ	< 1.0 U
MW-61	MW-61-20050401-FS	4/1/2005	N	< 5 U	< 5 U	< 10 U
MW-61	DUP-041005-20050401-FD	4/1/2005	FD	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20060317-FS	3/17/2006	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-61	MW-61-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20090424-FS	4/24/2009	N	4 J	< 5 U	< 5 U
MW-61	MW-61-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20101104-FS	11/4/2010	N	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20110323-FS	3/23/2011	N	1.8 J	< 5 U	< 5 U
MW-61	MW-61-20111025-FS	10/25/2011	N	< 5 U	< 5 U	< 5 U
MW-61	MW-61-20121017	10/17/2012	N	2.4 J	< 5.0 U	< 2.0 U
MW-61	MW-61-101613	10/16/2013	N	4.0 J	< 5.0 U	< 2.0 U
MW-61	MW-61-201403	3/6/2014	N	4.7 J	< 5.0 U	< 2.0 U
MW-61	MW-61-201405	5/13/2014	N	6.6	< 5.0 U	< 2.0 U
MW-61	MW-61-201407	7/28/2014	N	8.1	< 5.0 U	< 2.0 U
MW-61	MW-61-201410	10/14/2014	N	7.9	< 5.0 U	< 2.0 U
MW-61	MW-61-201501	1/13/2015	N	10.2	< 1.0 U	< 1.0 U
MW-61	MW-61-201504	4/14/2015	N	10.9	< 1.0 U	< 1.0 U
MW-61R	MW-61R-201507	7/21/2015	N	14.7	< 1.0 U	< 1.0 U
MW-61R	MW-61R-GW-091815	9/18/2015	N	16.5	< 1.0 U	< 1.0 U
MW-61R	MW-61R-201510	10/8/2015	N	11.7	< 1.0 U	< 1.0 U
MW-61R	DUP-02-201510	10/8/2015	FD	13.3	< 1.0 U	< 1.0 U
MW-61R	MW-61R-201511	11/4/2015	N	9.2	1.1	< 1.0 U
MW-61R	MW-61R-201512	12/1/2015	N	5.0	4.6	< 1.0 U
MW-61R	MW-61R-201601	1/8/2016	N	3.9	4.6	< 1.0 U
MW-61R	MW-61R-201605	5/3/2016	N	5.3	3.8	< 1.0 U
MW-61R	MW-61R-201611	11/7/2016	N	2.3	2.9	< 1.0 U
MW-61R	MW-61R-201704	4/27/2017	N	2.4	2.6	< 1.0 U
MW-61R	MW-61R-201710	10/23/2017	N	2.9	2.1	< 1.0 U
MW-61R	MW-61R-201804	4/17/2018	N	4.0	1.9	< 1.0 U
MW-61R	MW-61R-201807	7/31/2018	N	7.0	1.8	< 1.0 U
MW-61R	MW-61R-201811	11/13/2018	N	7.7	1.9	< 1.0 U
MW-61R	DUP-06-201811	11/13/2018	FD	7.7	1.8	< 1.0 U
MW-61R	MW-61R-201904	4/25/2019	N	14.9	1.1	< 1.0 U
MW-61R	MW-61R-201910	10/23/2019	N	20.8	1.7	< 1.0 U
MW-61R	MW-61R-202005	5/14/2020	N	15.6	1.0	< 1.0 U
MW-61R	MW-61R-202010	10/6/2020	N	15.8	1.1	< 1.0 U
MW-61R	MW-61R-202104	4/14/2021	N	15.3	1.3	< 1.0 U
MW-61R	DUP-10-202104	4/14/2021	FD	14.2	1.3	< 1.0 U
MW-61R	MW-61R-202110	10/20/2021	N	6.9	2.0	0.53 J
MW-61R	MW-61R-202204	4/13/2022	N	9.1	2.1	0.79 J
MW-61R	MW-61R-202210_3699	10/19/2022	N	2.8	2.0	1.4

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-61R	MW-61R-202304	4/18/2023	N	5.0	2.0	1.2
MW-61R	DUP-07-202304	4/18/2023	FD	4.9	2.0	1.2
MW-61R	MW-61R-202310	10/18/2023	N	1.7	1.3	1.7
MW-61R	MW-61R-202404	4/17/2024	N	3.8	1.1	1.4
MW-61R	DUP-07-202404	4/17/2024	FD	4.4	1.0	1.4
MW-61R	MW-61R-202410	10/9/2024	N	1.4	< 1.0 U	< 1.0 U
MW-62	MW-62-20050401-FS	4/1/2005	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20060316-FS	3/16/2006	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20061012-FS	10/12/2006	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20070919-FS	9/19/2007	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-62	MW-62-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20091027-FS	10/27/2009	N	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20110323-FS	3/23/2011	N	< 5 U	< 5 U	< 5 U
MW-62	MW-62-20111025-FS	10/25/2011	N	1.9 J	< 5 U	< 5 U
MW-62	MW-62-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-62	MW-62-101713	10/17/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-62	MW-62-201403	3/7/2014	N	0.18 J	< 5.0 U	< 2.0 U
MW-62	MW-62-201405	5/14/2014	N	0.62 J	< 5.0 U	< 2.0 U
MW-62	MW-62-201407	7/29/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-62	MW-62-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-62	MW-62-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62	MW-62-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201507	7/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201611	11/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	FD-02-201710	10/24/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201710	10/25/2017	N	< 1.0 U	0.17 J	< 1.0 U
MW-62R	MW-62R-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202005	5/12/2020	N	0.21 J	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202110	10/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202304	4/18/2023	N	0.23 J	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202404	4/16/2024	N	0.29 J	< 1.0 U	< 1.0 U
MW-62R	MW-62R-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-63	MW-63-20050401-FS	4/1/2005	N	8.14	< 5 U	< 10 U
MW-63	MW-63-20050930-FS	9/30/2005	N	< 5 U	< 5 U	< 10 U
MW-63	MW-63-20060316-FS	3/16/2006	N	9.76	< 5 U	< 10 U
MW-63	MW-63-20060406-FS	4/6/2006	N	11.6	< 5 U	< 10 U
MW-63	MW-63-20061012-FS	10/12/2006	N	4 J	< 5 U	< 10 U
MW-63	MW-63-20070419-FS	4/19/2007	N	4.08 J	< 5 U	< 10 U
MW-63	MW-63-20070919-FS	9/19/2007	N	8	< 5 U	< 10 U
MW-63	MW-63-20080430-FS	4/30/2008	N	3 J	< 5 U	< 10 U
MW-63	MW-63-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-63	MW-63-20090424-FS	4/24/2009	N	4.3 J	< 5 U	< 5 U
MW-63	MW-63-20091027-FS	10/27/2009	N	7.7	< 5 U	< 5 U
MW-63	MW-63-20100511-FS	5/11/2010	N	7.6	< 5 U	< 5 U
MW-63	MW-63-20101106-FS	11/6/2010	N	11	< 5 U	< 5 U
MW-63	MW-63-20110323-FS	3/23/2011	N	12	< 5 U	< 5 U
MW-63	MW-63-20111025-FS	10/25/2011	N	9.8	< 5 U	< 5 U
MW-63	MW-63-20121019	10/19/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-63	MW-63-101713	10/17/2013	N	7.5	< 5.0 U	< 2.0 U
MW-63	MW-63-201403	3/7/2014	N	9.4	1.3 J	< 2.0 U
MW-63	MW-63-201405	5/14/2014	N	12.2	0.61 J	0.13 J
MW-63	MW-63-201407	7/28/2014	N	8.3	0.99 J	< 2.0 U
MW-63	MW-63-201410	10/14/2014	N	9.4	0.98 J	< 2.0 U
MW-63	MW-63-201501	1/13/2015	N	8.2	1.0	< 1.0 U
MW-63	MW-63-201504	4/14/2015	N	9.2	0.99 J	< 1.0 U
MW-63R	MW-63R-201507	7/21/2015	N	5.6	0.70 J	< 1.0 U
MW-63R	MW-63R-201510	10/8/2015	N	3.9	0.70 J	< 1.0 U
MW-63R	MW-63R-201601	1/12/2016	N	3.2	0.39 J	< 1.0 U
MW-63R	MW-63R-201605	5/2/2016	N	3.3	0.55 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-63R	MW-63R-201611	11/7/2016	N	2.9	0.21 J	< 1.0 U
MW-63R	MW-63R-201704	4/26/2017	N	3.8 B	< 1.0 U	< 1.0 U
MW-63R	MW-63R-201710	10/23/2017	N	4.4	0.85 J	< 1.0 U
MW-63R	MW-63R-201804	4/17/2018	N	4.8	0.44 J	< 1.0 U
MW-63R	DUP-01-201804	4/17/2018	FD	4.9	0.38 J	< 1.0 U
MW-63R	MW-63R-201811	11/14/2018	N	4.5	0.66 J	< 1.0 U
MW-63R	MW-63R-201904	4/23/2019	N	4.1	0.52 J	< 1.0 U
MW-63R	MW-63R-201910	10/22/2019	N	7.4	0.59 J	< 1.0 U
MW-63R	MW-63R-202005	5/12/2020	N	7.2	0.76 J	< 1.0 U
MW-63R	MW-63R-202010	10/6/2020	N	7.1	0.81 J	< 1.0 U
MW-63R	MW-63R-202104	4/14/2021	N	7.9	0.86 J	< 1.0 U
MW-63R	MW-63R-202110	10/20/2021	N	3.9	0.81 J	< 1.0 U
MW-63R	MW-63R-202204	4/13/2022	N	5.5	0.89 J	< 1.0 U
MW-63R	DUP-03-202204	4/13/2022	FD	6.5	< 1.0 U	< 1.0 U
MW-63R	MW-63R-202210	10/19/2022	N	5.8	0.82 J	< 1.0 U
MW-63R	MW-63R-202304	4/19/2023	N	6.6	0.83 J	< 1.0 U
MW-63R	DUP-03-202304	4/19/2023	FD	6.4	0.94 J	< 1.0 U
MW-63R	MW-63R-202310	10/18/2023	N	7.2	0.87 J	< 1.0 U
MW-63R	MW-63R-202404	4/17/2024	N	7.5	0.81 J	< 1.0 U
MW-63R	DUP-06-202404	4/17/2024	FD	6.7	0.80 J	< 1.0 U
MW-63R	MW-63R-202410	10/9/2024	N	11	< 1.0 U	< 1.0 U
MW-65	MW-65-20061011-FS	10/11/2006	N	470	19	< 10 U
MW-65	DUP-1-20061011-FD	10/11/2006	FD	560	18	< 10 U
MW-65	MW-65-20070419-FS	4/19/2007	N	1350	23.4	< 10 U
MW-65	MW-65-20070920-FS	9/20/2007	N	580	17	< 10 U
MW-65	MW-65-20080430-FS	4/30/2008	N	570 0	16 0	< 10 U
MW-65	MW-65-20081211-FS	12/11/2008	N	460	11	< 5 U
MW-65	MW-65-20090424-FS	4/24/2009	N	620	19	< 5 U
MW-65	MW-65-20101107-FS	11/7/2010	N	400	11	< 5 U
MW-65	MW-65-20110304-FS	3/4/2011	N	370	13	< 5.0 U
MW-65	MW-65-20111025-FS	10/25/2011	N	310	10	< 5 U
MW-65	MW-65-20121020	10/20/2012	N	280	8.9	< 2.0 U
MW-65	MW-65-101713	10/17/2013	N	220	8.6	< 2.0 U
MW-65	MW-65-20140308	3/8/2014	N	199	6.6	< 2.0 U
MW-65	MW-65-201405	5/14/2014	N	195	6.9	< 2.0 U
MW-65	MW-65-201407	7/30/2014	N	17.1	< 5.0 U	< 2.0 U
MW-65	MW-65-201410	10/14/2014	N	30.8	0.54 J	< 2.0 U
MW-65	MW-65-201501	1/13/2015	N	19.2	< 1.0 U	< 1.0 U
MW-65	MW-65-201504	4/15/2015	N	16.0	< 1.0 U	< 1.0 U
MW-65	MW-65-201507	7/20/2015	N	26.3	0.38 J	< 1.0 U
MW-65	MW-65-201510	10/7/2015	N	0.28 J	< 1.0 U	< 1.0 U
MW-65	MW-65-201511	11/4/2015	N	7.7	< 1.0 U	< 1.0 U
MW-65	MW-65-201512	12/2/2015	N	6.6	< 1.0 U	< 1.0 U
MW-65	MW-65-201601	1/11/2016	N	14.5	0.32 J	< 1.0 U
MW-65	MW-65-201605	5/3/2016	N	21.5	0.35 J	< 1.0 U
MW-66	MW-66-20060406-FS	4/6/2006	N	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20061012-FS	10/12/2006	N	2 J	< 5 U	< 10 U
MW-66	MW-66-20070418-FS	4/18/2007	N	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20070919-FS	9/19/2007	N	4 J	< 5 U	< 10 U
MW-66	MW-66-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-66	MW-66-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20090425-FS	4/25/2009	N	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20091028-FS	10/28/2009	N	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20101103-FS	11/3/2010	N	< 5 U	< 5 U	< 5 U
MW-66	MW-66-20110324-FS	3/24/2011	N	1.6 J	< 5 U	< 5 U
MW-66	MW-66-20111026-FS	10/26/2011	N	1.8 J	< 5 U	< 5 U
MW-66	MW-66-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-66	MW-66-101713	10/17/2013	N	2.1 J	< 5.0 U	< 2.0 U
MW-66	MW-66-201403	3/7/2014	N	3.5 J	< 5.0 U	< 2.0 U
MW-66	MW-66-201405	5/13/2014	N	3.1 J	< 5.0 U	< 2.0 U
MW-66	MW-66-201407	7/28/2014	N	2.6 J	< 5.0 U	< 2.0 U
MW-66	MW-66-201410	10/13/2014	N	2.3 J	< 5.0 U	< 2.0 U
MW-66	MW-66-201501	1/14/2015	N	2.4	< 1.0 U	< 1.0 U
MW-66	MW-66-201504	4/15/2015	N	2.6	< 1.0 U	< 1.0 U
MW-66	MW-66-201507	7/20/2015	N	3.3	0.22 J	< 1.0 U
MW-66	MW-66-201510	10/6/2015	N	2.3	0.18 J	< 1.0 U
MW-66	MW-66-201601	1/11/2016	N	0.53 J	< 1.0 U	< 1.0 U
MW-66	MW-66-201605	5/2/2016	N	2.6	0.20 J	< 1.0 U
MW-67	MW-67-20060406-FS	4/6/2006	N	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20061012-FS	10/12/2006	N	1 J	< 5 U	< 10 U
MW-67	MW-67-20070419-FS	4/19/2007	N	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20070918-FS	9/18/2007	N	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20080429-FS	4/29/2008	N	< 5 U	< 5 U	< 10 U
MW-67	MW-67-20081210-FS	12/10/2008	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20090425-FS	4/25/2009	N	< 5 U	< 5 U	< 5 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-67	MW-67-20091028-FS	10/28/2009	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20100511-FS	5/11/2010	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20101103-FS	11/3/2010	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20110324-FS	3/24/2011	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-67	MW-67-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-101713	10/17/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-201403	3/7/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-201405	5/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-201407	7/28/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-201410	10/13/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-67	MW-67-201501	1/12/2015	N	1.3	< 1.0 U	< 1.0 U
MW-67	MW-67-201504	4/15/2015	N	0.77 J	< 1.0 U	< 1.0 U
MW-67R	MW-67R-201507	7/20/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-67R	MW-67R-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-67R	MW-67R-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-67R	MW-67R-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-20090115-FS	1/15/2009	N	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20090424-FS	4/24/2009	N	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20091028-FS	10/28/2009	N	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20100513-FS	5/13/2010	N	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20101106-FS	11/6/2010	N	9.5	< 5 U	< 5 U
MW-68	MW-68-20111026-FS	10/26/2011	N	< 5 U	< 5 U	< 5 U
MW-68	MW-68-20121017	10/17/2012	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-68	MW-68-101613	10/16/2013	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-68	MW-68-201403	3/6/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-68	MW-68-201405	5/14/2014	N	0.49 J	< 5.0 U	< 2.0 U
MW-68	MW-68-201407	7/29/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-68	MW-68-201410	10/14/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-68	MW-68-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201504	4/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201507	7/20/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201611	11/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201704	4/27/2017	N	0.22 J	< 1.0 U	< 1.0 U
MW-68	MW-68-201710	10/24/2017	N	0.31 J	< 1.0 U	< 1.0 U
MW-68	MW-68-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202010	10/6/2020	N	0.57 J	< 1.0 U	< 1.0 U
MW-68	MW-68-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202210	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202304	4/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202404	4/15/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-68	MW-68-202410	10/10/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-70	MW-70-20101104-FS	11/4/2010	N	540	14	< 5 U
MW-70	MW-70-20110322-FS	3/22/2011	N	170	9.2	1.2 J
MW-70	MW-70-20111026-FS	10/26/2011	N	320	7.7	< 5 U
MW-70	MW-70-20120418-FS	4/18/2012	N	330	11	< 5 U
MW-70	MW-70-20121018	10/18/2012	N	200	11	< 2.0 U
MW-70	MW-70-20130423	4/23/2013	N	180	3.6 J	0.32 J
MW-70	MW-70-101613	10/16/2013	N	270	7.2	0.30 J
MW-71	MW-71-20091028-FS	10/28/2009	N	190	6.3	< 5 U
MW-71	MW-71-20100513-FS	5/13/2010	N	160	7.4	< 5 U
MW-71	MW-71-20101104-FS	11/4/2010	N	250	7.2	< 5 U
MW-71	MW-71-20110322-FS	3/22/2011	N	76	1.6 J	< 5 U
MW-71	MW-71-20111026-FS	10/26/2011	N	130	2.7 J	< 5 U
MW-71	MW-71-20120418-FS	4/18/2012	N	160	5.3	< 5 U
MW-71	MW-71-20121020	10/20/2012	N	210	7.3	< 2.0 U
MW-71	MW-71-20130423	4/23/2013	N	220	4.8 J	0.23 J
MW-71	MW-71-101613	10/16/2013	N	160	6.1	0.57 J
MW-71	MW-71-201403	3/7/2014	N	166	5.8	0.19 J
MW-71	MW-71-201405	5/13/2014	N	164	5.3	0.33 J
MW-71	MW-71-201407	7/29/2014	N	181	6.4	< 2.0 U
MW-71	MW-71-201410	10/14/2014	N	185	6.0	< 2.0 U
MW-71	MW-71-201501	1/14/2015	N	170	6.0	< 1.0 U
MW-71	MW-71-201504	4/14/2015	N	156	5.7	< 1.0 U
MW-71	MW-71-201507	7/20/2015	N	165	5.3	0.48 J
MW-71	MW-71-201510	10/6/2015	N	179	6.5	0.43 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-71	MW-71-201601	1/11/2016	N	171	6.1	0.40 J
MW-71	MW-71-201605	5/3/2016	N	140	5.3	0.23 J
MW-81	MW-81-201405	5/29/2014	N	512	14.3	0.21 J
MW-81	20140708-GW-MW-81	7/9/2014	N	518	11.4	< 2.0 U
MW-81	MW-81-201409	9/11/2014	N	463	13.5	< 2.0 U
MW-81	MW-81-201501	1/13/2015	N	385	9.9	< 1.0 U
MW-81	MW-81-201504	4/15/2015	N	198	4.2	< 1.0 U
MW-81	MW-81-201507	7/22/2015	N	275	7.7	< 1.0 U
MW-81	MW-81-201510	10/8/2015	N	160	3.8	< 1.0 U
MW-81	MW-81-201511	11/5/2015	N	233	6.5	< 1.0 U
MW-81	MW-81-201512	12/2/2015	N	56.1	0.84 J	< 1.0 U
MW-81	MW-81-201601	1/11/2016	N	157	3.9	< 1.0 U
MW-81	MW-81-201605	5/4/2016	N	256	8.3	< 1.0 U
MW-82	MW-82-201405	5/28/2014	N	285	4.8 J	0.14 J
MW-82	20140708-GW-MW-82	7/9/2014	N	48.2	1.2 J	< 2.0 U
MW-82	MW-82-201409	9/11/2014	N	50.0	1.1 J	< 2.0 U
MW-82	MW-82-201501	1/13/2015	N	66.0	1.2	< 1.0 U
MW-82	MW-82-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-82	MW-82-201507	7/22/2015	N	5.3	< 1.0 U	< 1.0 U
MW-82	MW-82-201510	10/6/2015	N	4.2	< 1.0 U	< 1.0 U
MW-82	MW-82-201601	1/11/2016	N	5.6	0.18 J	< 1.0 U
MW-82	MW-82-201605	5/4/2016	N	31.7	0.81 J	< 1.0 U
MW-82	MW-82-201611	11/9/2016	N	36.2	0.24 J	< 1.0 U
MW-82	MW-82-201710	10/24/2017	N	34.3	0.80 J	< 1.0 U
MW-82	FD-03-201710	10/24/2017	FD	34.1	0.80 J	< 1.0 U
MW-82	MW-82-201811	11/15/2018	N	60.3	1.2	< 1.0 U
MW-82	MW-82-201910	10/23/2019	N	55.6	1.1	< 1.0 U
MW-82	DUP-02-201910	10/23/2019	FD	55.9	0.99 J	< 1.0 U
MW-82	MW-82-202010	10/7/2020	N	55.1	1.3	< 1.0 U
MW-82	MW-82-202110	10/22/2021	N	40.0	0.83 J	< 1.0 U
MW-82	MW-82-202210	10/19/2022	N	34.7	0.62 J	< 1.0 U
MW-82	MW-82-202310	10/18/2023	N	31.5	0.67 J	< 1.0 U
MW-82	MW-82-202410	10/10/2024	N	22	0.98 J	< 1.0 U
MW-83	MW-83-20140523	5/23/2014	N	470	8.3	< 2.0 U
MW-83	MW-83-201409	9/12/2014	N	213	4.9 J	< 2.0 U
MW-83	MW-83-20141023	10/23/2014	N	210	5.2	< 2.0 U
MW-83	MW-83-201501	1/15/2015	N	101	1.8	< 1.0 U
MW-83	MW-83-201504	4/16/2015	N	151	2.8	< 1.0 U
MW-83	MW-83-201507	7/22/2015	N	27.9	0.49 J	< 1.0 U
MW-83	MW-83-201510	10/8/2015	N	9.8	0.25 J	< 1.0 U
MW-83	MW-83-201511	11/5/2015	N	3.2	< 1.0 U	< 1.0 U
MW-83	MW-83-201512	12/2/2015	N	1.3	< 1.0 U	< 1.0 U
MW-83	MW-83-201601	1/7/2016	N	1.1	< 1.0 U	< 1.0 U
MW-83	MW-83-201605	5/4/2016	N	3.3	< 1.0 U	< 1.0 U
MW-83	MW-83-201611	11/9/2016	N	0.63 J	< 1.0 U	< 1.0 U
MW-83	MW-83-201710	10/25/2017	N	4.8	< 1.0 U	< 1.0 U
MW-83	MW-83-201811	11/14/2018	N	34.2	0.63 J	< 1.0 U
MW-83	MW-83-201910	10/24/2019	N	41.9	0.85 J	< 1.0 U
MW-83	MW-83-202010	10/7/2020	N	40.5	0.81 J	< 1.0 U
MW-83	DUP-01-202010	10/7/2020	FD	40.9	0.82 J	< 1.0 U
MW-83	MW-83-202110	10/20/2021	N	27.8	0.52 J	< 1.0 U
MW-83	MW-83-202210	10/19/2022	N	28.1	0.54 J	< 1.0 U
MW-83	MW-83-202310	10/18/2023	N	27.5	0.54 J	< 1.0 U
MW-83	MW-83-202404	4/18/2024	N	27.4	0.44 J	< 1.0 U
MW-83	MW-83-202410	10/10/2024	N	28	0.62 J	< 1.0 U
MW-84	MW-84-201405	5/27/2014	N	214	4.6 J	0.16 J
MW-84	MW-84-201409A	9/12/2014	N	0.93 J	< 5.0 U	< 2.0 U
MW-84	MW-84-20141023	10/23/2014	N	0.68 J	< 5.0 U	< 2.0 U
MW-84	MW-84-201501	1/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201504	4/16/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201507	7/23/2015	N	0.29 J	< 1.0 U	< 1.0 U
MW-84	MW-84-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201601	1/7/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201605	5/5/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-84	MW-84-201804	4/18/2018	N	0.54 J	< 1.0 U	< 1.0 U
MW-84	MW-84-201811	11/14/2018	N	1.5	< 1.0 U	< 1.0 U
MW-84	MW-84-201904	4/23/2019	N	0.61 J	< 1.0 U	< 1.0 U
MW-84	DUP-01-201904	4/23/2019	FD	0.69 J	< 1.0 U	< 1.0 U
MW-84	MW-84-201910	10/23/2019	N	2.4	< 1.0 U	< 1.0 U
MW-84	MW-84-202005	5/13/2020	N	1.7	< 1.0 U	< 1.0 U
MW-84	MW-84-202010	10/6/2020	N	1.6	< 1.0 U	< 1.0 U
MW-84	MW-84-20201020	10/20/2020	N	1.7	< 1.0 U	< 1.0 U
MW-84	MW-84-202104	4/13/2021	N	1.4	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-84	MW-84-202110	10/21/2021	N	7.8	< 1.0 U	< 1.0 U
MW-84	MW-84-202204	4/13/2022	N	1.8	< 1.0 U	< 1.0 U
MW-84	MW-84-202210	10/19/2022	N	2.2	< 1.0 U	< 1.0 U
MW-84	MW-84-202304	4/19/2023	N	2.4	< 1.0 U	< 1.0 U
MW-84	MW-84-202310	10/18/2023	N	2.7	< 1.0 U	< 1.0 U
MW-84	MW-84-202404	4/18/2024	N	1.6	< 1.0 U	< 1.0 U
MW-84	MW-84-202410	10/11/2024	N	2.3 J	< 1.0 UJ	< 1.0 UJ
MW-85	MW-85-201405	5/29/2014	N	1970	99.4	23.1
MW-85	20140708-GW-MW-85	7/8/2014	N	3780	133	3.9
MW-85	MW-85-201409	9/11/2014	N	5820	226 J	35.3
MW-85	MW-85-20141205	12/5/2014	N	27700	280	7.7
MW-85	MW-85-201501	1/15/2015	N	5940	167	1.1
MW-85	MW-85-201504	4/16/2015	N	256	16.8	< 1.0 U
MW-85	MW-85-201507	7/23/2015	N	132	6.3	< 1.0 U
MW-85	MW-85-201510	10/8/2015	N	12000	52.6	1.8
MW-85	MW-85-201601	1/13/2016	N	6980	32.8	0.70 J
MW-85	MW-85-201605	5/5/2016	N	678	12.0	0.82 J
MW-85R	MW-85R-201910	10/24/2019	N	68300	103	4.5
MW-85R	DUP-09-201910	10/24/2019	FD	74500	101	4.8
MW-85R	MW-85R-202010	10/8/2020	N	4860	76.0	1.7
MW-86	MW-86-201405	5/29/2014	N	533000	1220 J	341 J
MW-86	MW-86-201409	9/11/2014	N	129000	91.6	4.1
MW-86	MW-86-20141205	12/5/2014	N	169000	290 E	24.7
MW-86	MW-86-201501	1/15/2015	N	81200	128	4.5
MW-86	MW-86-201504	4/16/2015	N	46700	128	5.8
MW-86	MW-86-201507	7/23/2015	N	65100	292 J	46.7
MW-86	MW-86-201510	10/8/2015	N	131000	1020	127
MW-86	MW-86-201601	1/13/2016	N	95500	610 J	57.1
MW-86	MW-86-201605	5/5/2016	N	64900	348 J	35.7
MW-86	MW-86-201611	11/9/2016	N	75100	< 1000 U	65.4 J
MW-86	MW-86-201704	4/28/2017	N	29900	1330	< 1.0 U
MW-86	MW-86-201710	10/26/2017	N	61300	2210	< 1000 U
MW-86	MW-86-201804	4/19/2018	N	61200	2450	171
MW-86	MW-86-201811	11/16/2018	N	188000	19500	2780
MW-86	MW-86-201904	4/25/2019	N	75000	4350	264 J
MW-87	20140625-GW-MW-87	6/25/2014	N	564	41.8	< 2.0 U
MW-87	MW-87-201410	10/16/2014	N	594	47.8	< 2.0 U
MW-87	MW-87-201501	1/14/2015	N	661	51.3	< 1.0 U
MW-87	MW-87-201504	4/16/2015	N	758	58.6	0.33 J
MW-87	MW-87-201507	7/23/2015	N	758	56.5	0.34 J
MW-87	MW-87-201510	10/7/2015	N	708	54.5	0.31 J
MW-87	MW-87-201601	1/13/2016	N	757	61.9	0.47 J
MW-87	DUP-09-201601	1/13/2016	FD	781	63.2	0.40 J
MW-87	MW-87-201605	5/5/2016	N	839	51.6	0.36 J
MW-87	MW-87-201611	11/8/2016	N	701 J	51.9	0.25 J
MW-87	DUP-05-201611	11/8/2016	FD	948 J	49.0	0.39 J
MW-87	MW-87-201710	10/26/2017	N	486	36.4	< 1.0 U
MW-87	MW-87-201811	11/15/2018	N	397	28.3	0.77 J
MW-87	MW-87-201910	10/23/2019	N	315	22.4	0.21 J
MW-87	MW-87-202010	10/8/2020	N	320	22.3	< 1.0 U
MW-87	MW-87-202104	4/15/2021	N	233	18.0	< 1.0 U
MW-87	MW-87-202110	10/21/2021	N	276	20.6	0.17 J
MW-87	MW-87-202204	4/14/2022	N	330	20.3	< 1.0 U
MW-87	MW-87-202210_4073	10/20/2022	N	242	20.9	< 1.0 U
MW-87	MW-87-202304	4/20/2023	N	219	17.4	< 1.0 U
MW-87	MW-87-202310	10/18/2023	N	257	14.8	< 1.0 U
MW-87	MW-87-202404	4/18/2024	N	251	16.7	0.19 J
MW-87	MW-87-202410	10/11/2024	N	280	15	< 2.0 U
MW-88	20140624-GW-MW-88	6/24/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-88	MW-88-201410	10/16/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-88	MW-88-201501	1/13/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-88	MW-88-201504	4/16/2015	N	0.58 J	< 1.0 U	< 1.0
MW-88	MW-88-201507	7/23/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-88	MW-88-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-88	MW-88-201601	1/12/2016	N	0.58 J	< 1.0 U	< 1.0 U
MW-88	MW-88-201605	5/4/2016	N	0.25 J	< 1.0 U	< 1.0 U
MW-89	20140624-GW-MW-89	6/24/2014	N	19.5	< 5.0 U	< 2.0 U
MW-89	MW-89-201410	10/15/2014	N	11.3	< 5.0 U	< 2.0 U
MW-89	MW-89-201501	1/13/2015	N	11.4	< 1.0 U	< 1.0 U
MW-89	MW-89-201504	4/16/2015	N	15.9	< 1.0 U	< 1.0
MW-89	MW-89-201507	7/23/2015	N	14.5	0.18 J	< 1.0 U
MW-89	MW-89-201510	10/7/2015	N	12.7	0.24 J	< 1.0 U
MW-89	MW-89-201601	1/12/2016	N	11.6	0.20 J	< 1.0 U
MW-89	MW-89-201605	5/3/2016	N	14.0	0.30 J	< 1.0 U
MW-89	MW-89-201611	11/8/2016	N	13.4	< 1.0 U	< 1.0 U
MW-89	MW-89-201710	10/26/2017	N	11.3	0.48 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-89	MW-89-201811	11/14/2018	N	9.7	0.53 J	< 1.0 U
MW-89	MW-89-201910	10/22/2019	N	9.0	0.51 J	< 1.0 U
MW-89	MW-89-202010	10/8/2020	N	6.4	0.48 J	< 1.0 U
MW-89	MW-89-202110	10/20/2021	N	3.9	0.30 J	< 1.0 U
MW-89	MW-89-202210_3494	10/18/2022	N	4.8	0.25 J	< 1.0 U
MW-89	MW-89-202310	10/17/2023	N	4.6	0.30 J	< 1.0 U
MW-89	MW-89-202410	10/9/2024	N	3.2	< 1.0 U	< 1.0 U
MW-90	20140625-GW-MW-90	6/25/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-90	MW-90-201410	10/16/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-90	MW-90-201501	1/12/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-90	MW-90-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-90	MW-90-201507	7/22/2015	N	0.38 J	< 1.0 U	< 1.0 U
MW-90	MW-90-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-90	MW-90-201601	1/12/2016	N	0.25 J	< 1.0 U	< 1.0 U
MW-90	MW-90-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-91	20140625-GW-MW-91	6/25/2014	N	234	21.7	< 2.0 U
MW-91	MW-91-201410	10/16/2014	N	319	28.8	< 2.0 U
MW-91	MW-91-201501	1/13/2015	N	354	31.5	< 1.0 U
MW-91	DUP-07-201501	1/13/2015	FD	317	31.0	< 1.0 U
MW-91	MW-91-201504	4/16/2015	N	438	36.6	0.18 J
MW-91	MW-91-201507	7/23/2015	N	411	34.8	0.23 J
MW-91	MW-91-201510	10/7/2015	N	405	35.2	0.17 J
MW-91	DUP-08-201510	10/7/2015	FD	442	35.7	0.19 J
MW-91	MW-91-201601	1/13/2016	N	413	36.1	0.24 J
MW-91	DUP-08-201601	1/13/2016	FD	422	38.6	0.24 J
MW-91	MW-91-201605	5/4/2016	N	530	37.8	0.23 J
MW-91	DUP-02-201605	5/4/2016	FD	459	33.4	0.26 J
MW-91	MW-91-201611	11/10/2016	N	574	41.6	0.36 J
MW-91	DUP-03-201611	11/10/2016	FD	599	40.6	0.38 J
MW-91	MW-91-201704	4/27/2017	N	605	44.3	0.20 J
MW-91	DUP-04-201704	4/27/2017	FD	556	42.6	0.15 J
MW-91	MW-91-201710	10/25/2017	N	534	36.4	0.27 J
MW-91	MW-91-201804	4/19/2018	N	557	38.6	0.21 J
MW-91	MW-91-201811	11/15/2018	N	437	33.4	0.30 J
MW-91	MW-91-201904	4/25/2019	N	454	29.9	0.21 J
MW-91	MW-91-201910	10/24/2019	N	437	26.8	0.18 J
MW-91	MW-91-202005	5/14/2020	N	59.8	104	0.36 J
MW-91	MW-91-202010	10/6/2020	N	51.9	136	0.67 J
MW-91	MW-91-202104	4/14/2021	N	8.1	49.9	0.54 J
MW-91	MW-91-202110	10/21/2021	N	9.5	70.3	0.39 J
MW-91	MW-91-202204	4/13/2022	N	3.6	61.1	< 1.0 U
MW-91	MW-91-202210_3494	10/18/2022	N	14.9	41.2	0.20 J
MW-91	MW-91-202304	4/19/2023	N	62.3	82.8	0.24 J
MW-91	MW-91-202310	10/17/2023	N	132	107	0.38 J
MW-91	MW-91-202404	4/16/2024	N	33.6	56.8	< 1.0 U
MW-91	MW-91-202410	10/10/2024	N	3.2 J	24	1.5
MW-92	MW-92-20141022	10/22/2014	N	2160	16.0	7.2
MW-92	MW-92-20141204	12/4/2014	N	2200	23.4	10.3
MW-92	MW-92-201501	1/15/2015	N	1410	10.4	4.6
MW-92	MW-92-201504	4/16/2015	N	736	5.4	2.1
MW-92	MW-92-201507	7/23/2015	N	617	6.7	1.0
MW-92	MW-92-201510	10/8/2015	N	1400	10.8	1.4
MW-92	MW-92-201601	1/13/2016	N	1840	7.1	0.66 J
MW-92	MW-92-201605	5/4/2016	N	2210	25.5	1.8
MW-92	DUP-08-201605	5/4/2016	FD	1840	25.7	1.7
MW-92	MW-92-202310	10/19/2023	N	404	2.3	< 1.0 U
MW-92	MW-92-202404	4/18/2024	N	245	2.5	< 1.0 U
MW-92	MW-92-202410	10/9/2024	N	870 J-	83 J-	< 5.0 UJ
MW-93	MW-93-20141022	10/22/2014	N	18200	145	5.0
MW-93	MW-93-20141204	12/4/2014	N	14600	85.7	2.5
MW-93	MW-93-201501	1/15/2015	N	18000	131	3.4
MW-93	MW-93-201504	4/16/2015	N	21500	160	3.9
MW-93	MW-93-201507	7/23/2015	N	20800	164	3.4
MW-93	MW-93-201510	10/8/2015	N	21100	120	3.3
MW-93	MW-93-201601	1/13/2016	N	21200	103	2.6
MW-93	MW-93-201605	5/5/2016	N	17300	127	7.6
MW-93	MW-93-201611	11/9/2016	N	18300	98.8	0.93 J
MW-93	MW-93-201704	4/28/2017	N	28200	127	5.8
MW-93	MW-93-201710	10/26/2017	N	16600	111	9.1
MW-93	MW-93-201804	4/19/2018	N	17000	97.9	4.5
MW-93	MW-93-201811	11/15/2018	N	16300	106	3.6
MW-93	MW-93-201904	4/24/2019	N	13700	124	2.3
MW-93	MW-93-201910	10/24/2019	N	14700	93.2	2.1
MW-93	MW-93-202010	10/8/2020	N	9130	64.5	1.0
MW-93	MW-93-202104	4/14/2021	N	9260	62.8	0.96 J
MW-93	MW-93-202110	10/21/2021	N	8560	62.3	0.90 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-93	MW-93-202204	4/14/2022	N	5800	69.5	1.6
MW-93	MW-93-202210	10/20/2022	N	9010	81.9	1.2
MW-93	MW-93-202304	4/19/2023	N	8970	70.0	1.3
MW-93	MW-93-202310	10/19/2023	N	8370	48.9	< 1.0 U
MW-93	MW-93-202404	4/19/2024	N	8130	70.5	1.2
MW-93	MW-93-202410	10/11/2024	N	4300	29 J	< 50 U
MW-94	MW-94-20141022	10/22/2014	N	11100	309 J	2.5
MW-94	MW-94-20141204	12/4/2014	N	9570	250 J	3.0
MW-94	MW-94-201501	1/15/2015	N	9530	297	2.4
MW-94	MW-94-201504	4/16/2015	N	11800	325	1.3
MW-94	MW-94-201507	7/23/2015	N	3890	119	0.61 J
MW-94	MW-94-201510	10/8/2015	N	1990	59.5	0.25 J
MW-94	MW-94-201601	1/13/2016	N	936	30.3	< 1.0 U
MW-94	MW-94-201605	5/5/2016	N	424	15.6	< 1.0 U
MW-94	MW-94-WG-20200717	7/17/2020	N	2680	56.7	< 1.0 U
MW-95	MW-95-20141022	10/22/2014	N	22300	151	25.7
MW-95	MW-95-20141204	12/4/2014	N	20900	159	29.9
MW-95	MW-95-201501	1/15/2015	N	21100	177	25.6
MW-95	MW-95-201504	4/16/2015	N	26700	184	14.9
MW-95	MW-95-201507	7/23/2015	N	25200	181	17.1
MW-95	MW-95-201510	10/8/2015	N	26300	161	32.0
MW-95	MW-95-201601	1/13/2016	N	24700	161	31.0
MW-95	MW-95-201605	5/5/2016	N	21600	164	14.8
MW-95	MW-95-201611	11/9/2016	N	28700	191	46.9 J
MW-95	MW-95-201704	4/28/2017	N	36300	181	10.7
MW-95	MW-95-201710	10/26/2017	N	23900	198	51.2
MW-95	MW-95-201804	4/19/2018	N	24100	153	13.1
MW-95	MW-95-201811	11/15/2018	N	20300	152	39.6
MW-95	MW-95-201904	4/25/2019	N	22200	199	10.2
MW-95	DUP-06-201904	4/25/2019	FD	20400	194	8.3
MW-95	MW-95-201910	10/24/2019	N	24700	265	25.9
MW-95	MW-95-WG-20200717	7/17/2020	N	21200	314	10.0
MW-95	MW-95-202010	10/8/2020	N	21100	315	10.4
MW-95	MW-95-202104	4/14/2021	N	21600	278	4.7
MW-95	MW-95-202110	10/21/2021	N	28600	402	< 200 U
MW-95	MW-95-202204	4/14/2022	N	26200	335	< 1.0 U
MW-95	MW-95-202210_3912	10/21/2022	N	36200 J	674	5.3
MW-95	MW-95-202304	4/19/2023	N	39200	739	2.2
MW-95	MW-95-202310	10/19/2023	N	44300	828	3.7 J
MW-95	MW-95-202404	4/19/2024	N	99800	776	2.5
MW-95	MW-95-202410	10/11/2024	N	33000	870	< 200 U
MW-96	MW-96-20141022	10/22/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-96	MW-96-201501	1/15/2015	N	0.59 J	< 1.0 U	< 1.0 U
MW-96	MW-96-201504	4/16/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-96	DUP-06-201504	4/16/2015	FD	< 1.0 U	< 1.0 U	< 1.0
MW-96	MW-96-201507	7/23/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-06-201507	7/23/2015	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201804	4/19/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201811	11/15/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-01-202104	4/13/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-02-202110	10/19/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-04-202204	4/12/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-08-202210	10/17/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-09-202304	4/18/2023	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-10-202310	10/16/2023	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-04-202404	4/16/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	MW-96-202410	10/10/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-96	DUP-07-202410	10/10/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-20141022	10/22/2014	N	< 5.0 U	< 5.0 U	< 2.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-97	MW-97-201501	1/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201504	4/16/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-97	MW-97-201507	7/23/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201605	5/5/2016	N	< 1.0 U	0.28 J	< 1.0 U
MW-97	MW-97-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201804	4/19/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201811	11/15/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202005	5/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202010	10/8/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	DUP-10-202010	10/8/2020	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202304	4/18/2023	N	0.82 J	< 1.0 U	< 1.0 U
MW-97	MW-97-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202404	4/17/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-97	MW-97-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-GW-2014 1029	10/29/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-98	MW-98-201501	1/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201504	4/16/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-98	MW-98-201507	7/23/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201704	4/27/2017	N	0.21 J	0.23 J	< 1.0 U
MW-98	MW-98-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-201811	11/14/2018	N	0.29 J	< 1.0 U	< 1.0 U
MW-98	MW-98-201904	4/24/2019	N	0.22 J	< 1.0 U	< 1.0 U
MW-98	MW-98-201910	10/23/2019	N	0.38 J	< 1.0 U	< 1.0 U
MW-98	MW-98-202005	5/12/2020	N	0.18 J	< 1.0 U	< 1.0 U
MW-98	DUP-4-202005	5/12/2020	FD	0.23 J	< 1.0 U	< 1.0 U
MW-98	MW-98-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202110	10/18/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202304	4/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202310	10/18/2023	N	1.2	0.20 J	< 1.0 U
MW-98	MW-98-202404	4/15/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-98	MW-98-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-20141022	10/22/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
MW-99	MW-99-201501	1/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201504	4/16/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-99	MW-99-201507	7/23/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201601	1/11/2016	N	0.21 J	< 1.0 U	< 1.0 U
MW-99	MW-99-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-99	MW-99-201804	4/18/2018	N	1.3	0.12 J	< 1.0 U
MW-99	MW-99-201811	11/13/2018	N	8.1	0.64 J	< 1.0 U
MW-99	MW-99-201904	4/24/2019	N	23.6	1.6	< 1.0 U
MW-99	MW-99-201910	10/23/2019	N	72.6	4.8	< 1.0 U
MW-99	MW-99-202005	5/14/2020	N	1.5	10.7	< 1.0 U
MW-99	MW-99-202010	10/7/2020	N	0.85 J	5.0	< 1.0 U
MW-99	MW-99-202104	4/13/2021	N	0.34 J	3.3	< 1.0 U
MW-99	MW-99-202110	10/19/2021	N	0.26 J	2.0	< 1.0 U
MW-99	MW-99-202204	4/12/2022	N	< 1.0 U	1.0	< 1.0 U
MW-99	MW-99-202210_3699	10/19/2022	N	2.2	1.9	< 1.0 U
MW-99	MW-99-202304	4/19/2023	N	13.0	9.0	< 1.0 U
MW-99	MW-99-202310	10/18/2023	N	0.37 J	10.2	< 1.0 U
MW-99	MW-99-202404	4/17/2024	N	16.8	14.7	< 1.0 U
MW-99	MW-99-202410	10/9/2024	N	5.2	12	< 1.0 U
MW-172	MW-172-20141022	10/22/2014	N	3010	21.4	2.4
MW-172	MW-172-20141205	12/5/2014	N	1810	15.6	1.3 J
MW-172	MW-172-201501	1/15/2015	N	3600	22.4	1.2
MW-172	MW-172-201504	4/16/2015	N	1740	11.9	0.92 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-172	MW-172-201507	7/23/2015	N	2140	12.4	0.69 J
MW-172	MW-172-201510	10/8/2015	N	2110	12.4	0.51 J
MW-172	MW-172-201601	1/13/2016	N	3190	13.5	< 1.0 U
MW-172	MW-172-201605	5/5/2016	N	2160	13.3	< 1.0 U
MW-172	MW-172-202404	4/18/2024	N	519	3.9	< 1.0 U
MW-172	MW-172-202410	10/10/2024	N	320 J	150	< 1.0 U
MW-173	MW-173-201504	4/15/2015	N	< 1.0 U	< 1.0 U	< 1.0
MW-173	MW-173-201507	7/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-173	MW-173-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-173	MW-173-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-173	MW-173-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-174	MW-174-GW-20150120	1/20/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-174	MW-174-201504	4/14/2015	N	0.68 J	< 1.0 U	< 1.0
MW-174	MW-174-201507	7/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-174	MW-174-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-174	MW-174-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-174	MW-174-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-175	MW-175-GW-20150120	1/20/2015	N	123	2.0	< 1.0 U
MW-175	MW-175-201504	4/15/2015	N	98.8	1.5	< 1.0
MW-175	MW-175-201507	7/21/2015	N	20.3	0.32 J	< 1.0 U
MW-175	MW-175-201510	10/7/2015	N	78.6	1.6	0.19 J
MW-175	MW-175-201601	1/11/2016	N	52.6	1.1	< 1.0 U
MW-175	MW-175-201605	5/3/2016	N	54.9	1.2	< 1.0 U
MW-175	MW-175-201611	11/8/2016	N	50.9	0.49 J	< 1.0 U
MW-175	MW-175-201704	4/28/2017	N	53.2	1.3	< 1.0 U
MW-175	MW-175-201710	10/24/2017	N	72.2	0.27 J	< 1.0 U
MW-175	MW-175-201804	4/18/2018	N	117	1.9	0.15 J
MW-175	MW-175-201811	11/13/2018	N	70.7	1.5	0.17 J
MW-175	MW-175-201904	4/23/2019	N	102	1.6	< 1.0 U
MW-175	MW-175-201910	10/23/2019	N	138	2.2	0.16 J
MW-175	MW-175-202005	5/13/2020	N	135	2.6	< 1.0 U
MW-175	MW-175-202010	10/6/2020	N	69.5	1.7	< 1.0 U
MW-175	MW-175-202104	4/13/2021	N	82.3	1.9	< 1.0 U
MW-175	MW-175-202110	10/20/2021	N	91.1	1.9	< 1.0 U
MW-175	MW-175-202204	4/14/2022	N	121	2.8	< 1.0 U
MW-175	MW-175-202210	10/20/2022	N	139	2.2	< 1.0 U
MW-175	MW-175-202304	4/20/2023	N	138	3.1	< 1.0 U
MW-175	MW-175-202310	10/19/2023	N	133	3.1	< 1.0 U
MW-175	MW-175-202404	4/16/2024	N	86.8	2.0	< 1.0 U
MW-175	MW-175-202410	10/11/2024	N	93 J	2.7 J	< 1.0 UJ
MW-176	MW-176-GW-20150120	1/20/2015	N	720	16.8	0.57 J
MW-176	MW-176-201504	4/14/2015	N	528	16.7	0.69 J
MW-176	MW-176-201507	7/21/2015	N	575	21.5	0.79 J
MW-176	MW-176-201510	10/6/2015	N	420	111	1.2
MW-176	MW-176-201601	1/12/2016	N	306	125	1.3
MW-176	MW-176-201605	5/3/2016	N	389	93.7	0.45 J
MW-176	MW-176-201611	11/8/2016	N	320	202	1.6
MW-176	MW-176-201704	4/28/2017	N	355	140	0.63 J
MW-176	MW-176-201710	10/24/2017	N	281	187	0.29 J
MW-176	MW-176-201804	4/17/2018	N	426	105	1.1
MW-176	MW-176-201811	11/13/2018	N	397	127	2.1
MW-176	MW-176-201904	4/23/2019	N	503	67.0	1.6
MW-176	MW-176-201910	10/22/2019	N	317	28.8	16.5
MW-176	MW-176-202005	5/12/2020	N	323	32.0	27.7
MW-176	MW-176-202010	10/6/2020	N	359	28.2	29.4
MW-176	MW-176-202104	4/13/2021	N	369	22.3	24.0
MW-176	MW-176-202110	10/20/2021	N	310	17.0	19.3
MW-176	MW-176-202204	4/12/2022	N	380	< 5.0 U	< 5.0 U
MW-176	MW-176-202210	10/18/2022	N	329	13.5	18.9
MW-176	MW-176-202304	4/18/2023	N	282	14.2	17.2
MW-176	MW-176-202310	10/17/2023	N	319	13.4	20.1
MW-176	MW-176-202404	4/16/2024	N	305	19.6	27.1
MW-176	MW-176-202410	10/9/2024	N	150	9.8	23
MW-177	MW-177-GW-20150121	1/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-177	MW-177-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-177	MW-177-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-177	MW-177-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-177	MW-177-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-178	MW-178-GW-20150118	1/18/2015	N	5.2	0.99 J	< 1.0 U
MW-178	MW-178-201504	4/16/2015	N	5.0	1.3	< 1.0 U
MW-178	MW-178-201507	7/22/2015	N	4.6	1.1	< 1.0 U
MW-178	MW-178-201510	10/7/2015	N	5.8	1.4	< 1.0 U
MW-178	MW-178-201611	11/10/2016	N	3.2	0.15 J	< 1.0 U
MW-178	MW-178-201704	4/27/2017	N	4.6	1.3	< 1.0 U
MW-178	MW-178-201710	10/25/2017	N	3.9	0.97 J	< 1.0 U
MW-178	FD-06-201710	10/25/2017	FD	3.6	0.96 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-178	MW-178-201804	4/18/2018	N	5.3	1.4	< 1.0 U
MW-178	MW-178-201811	11/14/2018	N	4.5	1.4	< 1.0 U
MW-178	MW-178-201904	4/24/2019	N	2.9	0.79 J	< 1.0 U
MW-178	MW-178-201910	10/23/2019	N	4.1	1.2	< 1.0 U
MW-178	MW-178-202005	5/13/2020	N	2.0	0.42 J	< 1.0 U
MW-178	MW-178-202010	10/7/2020	N	1.9	0.66 J	< 1.0 U
MW-178	MW-178-202104	4/15/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-178	DUP-03-202104	4/15/2021	FD	0.47 J	< 1.0 U	< 1.0 U
MW-178	MW-178-202110	10/21/2021	N	< 1.0 U	0.19 J	< 1.0 U
MW-178	MW-178-202204	4/14/2022	N	< 1.0 U	0.29 J	< 1.0 U
MW-178	MW-178-202304	4/20/2023	N	0.28 J	0.25 J	< 1.0 U
MW-178	MW-178-202310	10/19/2023	N	0.34 J	0.26 J	< 1.0 U
MW-178	MW-178-202404	4/16/2024	N	0.24 J	< 1.0 U	< 1.0 U
MW-178	MW-178-202410	10/11/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-179	MW-179-201504	4/16/2015	N	41.2	1.6	< 1.0
MW-179	MW-179-201507	7/22/2015	N	27.3	1.1	< 1.0 U
MW-179	MW-179-201601	1/13/2016	N	30.6	1.1	< 1.0 U
MW-179	MW-179-201605	5/4/2016	N	6.6	< 1.0 U	< 1.0 U
MW-179	MW-179-201704	4/28/2017	N	20.4	1.0	< 1.0 U
MW-179	MW-179-201710	10/26/2017	N	10.7	0.35 J	< 1.0 U
MW-179	MW-179-201804	4/19/2018	N	21.7	0.85 J	< 1.0 U
MW-179	MW-179-201811	11/13/2018	N	1.4	< 1.0 U	< 1.0 U
MW-179	MW-179-201904	4/24/2019	N	8.9	0.23 J	< 1.0 U
MW-179	MW-179-201910	10/24/2019	N	23.7	0.74 J	< 1.0 U
MW-179	MW-179-202005	5/15/2020	N	21.4	1.1	< 1.0 U
MW-179	MW-179-202010	10/8/2020	N	22.9	1.0	< 1.0 U
MW-179	MW-179-202104	4/15/2021	N	19.3	0.82 J	< 1.0 U
MW-179	MW-179-202110	10/21/2021	N	20.1	1.1	< 1.0 U
MW-179	MW-179-202204	4/14/2022	N	24.7	1.4	< 1.0 U
MW-179	MW-179-202210	10/20/2022	N	28.9	3.8	< 1.0 U
MW-179	MW-179-202304	4/20/2023	N	20.7	0.88 J	< 1.0 U
MW-179	MW-179-202310	10/19/2023	N	32.6	1.3	< 1.0 U
MW-179	MW-179-202404	4/19/2024	N	18.3	0.74 J	< 1.0 U
MW-180	MW-180-GW-20150119	1/19/2015	N	23.7	3.4	< 1.0 U
MW-180	MW-180-201504	4/16/2015	N	21.4	3.8	< 1.0
MW-180	MW-180-201507	7/22/2015	N	22.1	3.0	< 1.0 U
MW-180	MW-180-201510	10/7/2015	N	18.5	3.0	< 1.0 U
MW-180	MW-180-201601	1/14/2016	N	10.6	1.5	< 1.0 U
MW-180	MW-180-201605	5/5/2016	N	10.3	1.4	< 1.0 U
MW-181	MW-181-GW-20150121	1/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-181	MW-181-201504	4/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-181	MW-181-201507	7/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-181	MW-181-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-181	MW-181-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-182	MW-182-201507	7/23/2015	N	193	17.8	0.28 J
MW-182	MW-182-201510	10/5/2015	N	196	17.2	0.25 J
MW-182	MW-182-201601	1/13/2016	N	258	19.9	0.30 J
MW-182	MW-182-201605	5/4/2016	N	283	18.9	0.31 J
MW-182	DUP-09-201605	5/4/2016	FD	271	16.6	0.32 J
MW-182	MW-182-201611	11/9/2016	N	192	14.6	0.28 J
MW-182	DUP-02-201611	11/9/2016	FD	204	15.5	0.20 J
MW-182	MW-182-201710	10/24/2017	N	92.2	5.7	< 1.0 U
MW-182	MW-182-201804	4/19/2018	N	58.3	3.9	< 1.0 U
MW-182	DUP-06-201804	4/19/2018	FD	59.3	4.1	< 1.0 U
MW-182	MW-182-201811	11/15/2018	N	40.8	2.5	< 1.0 U
MW-182	MW-182-201904	4/24/2019	N	29.1	1.8	< 1.0 U
MW-182	MW-182-201910	10/23/2019	N	26.3	1.8	< 1.0 U
MW-182	MW-182-202005	5/13/2020	N	19.8	1.6	< 1.0 U
MW-182	DUP-08-202005	5/13/2020	FD	19.5	1.6	< 1.0 U
MW-182	MW-182-202010	10/7/2020	N	24.9	1.7	< 1.0 U
MW-182	MW-182-202110	10/21/2021	N	19.2	1.2	< 1.0 U
MW-182	DUP-10-202110	10/21/2021	FD	19.6	1.3	< 1.0 U
MW-182	MW-182-202210	10/19/2022	N	16.3	0.87 J	< 1.0 U
MW-182	DUP-02-202210	10/19/2022	FD	16.7	0.79 J	< 1.0 U
MW-182	MW-182-202310	10/20/2023	N	16.4	0.79 J	< 1.0 U
MW-182	DUP-07-202310	10/20/2023	FD	16.7	0.88 J	< 1.0 U
MW-182	MW-182-202410	10/9/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-182	DUP-09-202410	10/9/2024	FD	16	< 1.0 U	< 1.0 U
MW-183	MW-183-201510	10/6/2015	N	2.0	0.30 J	< 1.0 U
MW-183	MW-183-201601	1/12/2016	N	2.7	0.32 J	< 1.0 U
MW-183	MW-183-201605	5/4/2016	N	2.8	0.34 J	< 1.0 U
MW-183	MW-183-201611	11/9/2016	N	5.3	< 1.0 U	< 1.0 U
MW-183	MW-183-201704	4/26/2017	N	2.0	0.26 J	< 1.0 U
MW-183	DUP-03-201704	4/26/2017	FD	1.9	0.17 J	< 1.0 U
MW-183	MW-183-201710	10/25/2017	N	2.8	0.24 J	< 1.0 U
MW-183	MW-183-201804	4/18/2018	N	1.9	0.14 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-183	MW-183R-201811	11/14/2018	N	1.1	< 1.0 U	< 1.0 U
MW-183	MW-183R-201904	4/24/2019	N	0.54 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-201910	10/23/2019	N	1.2	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202005	5/13/2020	N	0.74 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202010	10/7/2020	N	0.82 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202104	4/13/2021	N	0.70 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202110	10/19/2021	N	0.67 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202204	4/13/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202210	10/18/2022	N	0.83 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202304	4/19/2023	N	0.41 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202310	10/17/2023	N	0.50 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202404	4/17/2024	N	0.38 J	< 1.0 U	< 1.0 U
MW-183R	MW-183R-202410	10/9/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201704	4/28/2017	N	0.45	< 1.0 U	< 1.0 U
MW-184	MW-184-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201811	11/14/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-184	MW-184-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-202005	5/13/2020	N	0.25 J	< 1.0 U	< 1.0 U
MW-184	MW-184-202010	10/7/2020	N	0.40 J	< 1.0 U	< 1.0 U
MW-184	DUP-05-202010	10/7/2020	FD	0.29 J	< 1.0 U	< 1.0 U
MW-184	MW-184-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	DUP-05-202104	4/13/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	DUP-01-202110	10/19/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-184	MW-184-202204	4/12/2022	N	0.43 J	< 1.0 U	< 1.0 U
MW-184	MW-184-202210	10/18/2022	N	0.49 J	< 1.0 U	< 1.0 U
MW-184	DUP-10-202210	10/18/2022	FD	0.55 J	< 1.0 U	< 1.0 U
MW-184	MW-184-202304	4/17/2023	N	2.6	0.22 J	< 1.0 U
MW-184	MW-184-202310	10/16/2023	N	1.4	0.18 J	< 1.0 U
MW-184	DUP-01-202310	10/16/2023	FD	1.8	0.16 J	< 1.0 U
MW-184	MW-184-202404	4/15/2024	N	7.8	0.56 J	< 1.0 U
MW-184	MW-184-202410	10/8/2024	N	2.2	< 1.0 U	< 1.0 U
MW-184	DUP-02-202410	10/8/2024	FD	2.1	< 1.0 U	< 1.0 U
MW-185	MW-185-GW-091615	9/16/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-185	MW-185-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-185	MW-185-201601	1/11/2016	N	0.87 J	< 1.0 U	< 1.0 U
MW-185	MW-185-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-185	MW-185-201611	11/8/2016	N	3.1	< 1.0 U	< 1.0 U
MW-185	MW-185-201704	4/26/2017	N	8.0	< 1.0 U	< 1.0 U
MW-185	MW-185-201710	10/24/2017	N	12.7	< 1.0 U	< 1.0 U
MW-185	MW-185-201804	4/19/2018	N	12.0	1.4	< 1.0 U
MW-185	DUP-07-201804	4/19/2018	FD	11.1	1.4	< 1.0 U
MW-185	MW-185-201807	7/31/2018	N	11.7	1.4	< 1.0 U
MW-185	MW-185-201811	11/14/2018	N	11.7	2.6	< 1.0 U
MW-185	MW-185-201904	4/25/2019	N	17.0	3.4	< 1.0 U
MW-185	MW-185-201910	10/24/2019	N	52.7	6.3	0.12 J
MW-185	MW-185-202005	5/13/2020	N	94.5	7.9	< 1.0 U
MW-185	DUP-07-202005	5/13/2020	FD	95.0	7.4	< 1.0 U
MW-185	MW-185-202010	10/7/2020	N	176	10.6	< 1.0 U
MW-185	MW-185-202104	4/15/2021	N	194	11.6	0.28 J
MW-185	MW-185-202110	10/21/2021	N	182	11.7	0.25 J
MW-185	MW-185-202204	4/13/2022	N	199	10.7	< 1.0 U
MW-185	MW-185-202210	10/20/2022	N	168	8.9	< 1.0 U
MW-185	MW-185-202304	4/19/2023	N	188	8.1	< 1.0 U
MW-185	MW-185-202310	10/19/2023	N	177	8.5	< 1.0 U
MW-185	MW-185-202404	4/18/2024	N	150	8.1	0.24 J
MW-185	MW-185-202410	10/10/2024	N	180	8.1	< 1.0 U
MW-186	MW-186-GW-091415	9/14/2015	N	< 1.0 U	0.37 J	< 1.0 U
MW-186	MW-186-201510	10/5/2015	N	1.2	2.4	< 1.0 U
MW-186	MW-186-201601	1/7/2016	N	3.0	3.2	< 1.0 U
MW-186	MW-186-201605	5/4/2016	N	4.0	3.0	< 1.0 U
MW-186	MW-186-201611	11/7/2016	N	5.2	3.3	0.16 J
MW-186	MW-186-201704	4/26/2017	N	4.7	2.7	< 1.0 U
MW-186	DUP-02-201704	4/26/2017	FD	5.0 B	2.8	< 1.0 U
MW-186	MW-186-201710	10/24/2017	N	7.8	4.1	0.14 J
MW-186	FD-04-201710	10/24/2017	FD	7.8	3.8	0.16 J
MW-186	MW-186-20180402	4/2/2018	N	13.1	4.2	0.22 J
MW-186	DUP-01-20180402	4/2/2018	FD	12.9	4.7	0.21 J
MW-186	MW-186-201804	4/19/2018	N	14.2	4.8	0.23 J
MW-186	MW-186-201807	8/3/2018	N	17.7	4.5	0.15 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-186	MW-186-201811	11/14/2018	N	10.2 F1	6.5	< 5.0 U
MW-186	MW-186-201904	4/26/2019	N	5.6	8.8	0.14 J
MW-186	MW-186-201910	10/24/2019	N	2.9	3.0	2.2
MW-186	MW-186-202005	5/14/2020	N	1.0 J+	0.62 J	0.36 J
MW-186	MW-186-202010	10/8/2020	N	0.43 J	0.40 J	0.33 J
MW-186	MW-186-202104	4/13/2021	N	0.40 J	0.42 J	0.43 J
MW-186	DUP-08-202104	4/13/2021	FD	0.33 J	0.58 J	0.45 J
MW-186	MW-186-202110	10/19/2021	N	0.49 J	0.66 J	0.45 J
MW-186	MW-186-202204	4/12/2022	N	0.26 J	< 1.0 U	< 1.0 U
MW-186	DUP-02-202204	4/12/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-186	MW-186-202210_3494	10/18/2022	N	0.49 J	0.76 J	0.43 J
MW-186	MW-186-202304	4/18/2023	N	0.33 J	0.51 J	0.41 J
MW-186	DUP-04-202304	4/18/2023	FD	0.29 J	0.53 J	0.36 J
MW-186	MW-186-202310	10/20/2023	N	1.1	0.61 J	0.59 J
MW-186	MW-186-202404	4/16/2024	N	0.30 J	< 1.0 UJ	0.53 J
MW-186	DUP-02-202404	4/16/2024	FD	0.35 J	< 1.0 UJ	0.58 J
MW-186	MW-186-202410	10/9/2024	N	< 1.0 U	< 1.0 U	0.45 J
MW-187	MW-187-GW-091415	9/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-187	MW-187-201510	10/5/2015	N	< 1.0 U	0.21 J	< 1.0 U
MW-187	MW-187-201601	1/8/2016	N	0.22 J	0.27 J	< 1.0 U
MW-187	MW-187-201605	5/4/2016	N	0.56 J	0.59 J	< 1.0 U
MW-187	MW-187-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-187	MW-187-201704	4/26/2017	N	0.46 J	0.55 J	< 1.0 U
MW-187	MW-187-201710	10/24/2017	N	0.65 J	0.73 J	< 1.0 U
MW-187	MW-187-201804	4/18/2018	N	< 1.0 U	0.77 J	< 1.0 U
MW-187	MW-187-201811	11/14/2018	N	0.86 J	0.81 J	< 1.0 U
MW-187	MW-187-201904	4/24/2019	N	1.4	1.3	< 1.0 U
MW-187	MW-187-201910	10/22/2019	N	3.5	2.2	< 1.0 U
MW-187	MW-187-202005	5/14/2020	N	5.2	3.0	< 1.0 U
MW-187	MW-187-202010	10/6/2020	N	9.8	3.7	< 1.0 U
MW-187	MW-187-202104	4/13/2021	N	22.4	3.8	< 1.0 U
MW-187	MW-187-202110	10/19/2021	N	16.8	3.8	< 1.0 U
MW-187	MW-187-202204	4/13/2022	N	51.4	4.1	< 1.0 U
MW-187	MW-187-202210	10/19/2022	N	74.2 J+	3.2	0.17 J
MW-187	MW-187-202304	4/19/2023	N	79.4	3.9	< 1.0 U
MW-187	MW-187-202310	10/20/2023	N	96.0	3.5	< 1.0 U
MW-187	MW-187-202404	4/17/2024	N	142 M1	3.9	< 1.0 U
MW-187	MW-187-202410	10/10/2024	N	110 J	3.2 J	< 1.0 UJ
MW-188	MW-188A-GW-091715	9/17/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201601	1/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201704	4/27/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201804	4/19/2018	N	0.20 J	< 1.0 U	< 1.0 U
MW-188	DUP-04-201804	4/19/2018	FD	0.18 J	< 1.0 U	< 1.0 U
MW-188	MW-188-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-201904	4/24/2019	N	0.88 J	0.33 J	< 1.0 U
MW-188	MW-188-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-188	MW-188-202005	5/13/2020	N	2.9	0.51 J	< 1.0 U
MW-188	MW-188-202010	10/6/2020	N	11.7	1.3	< 1.0 U
MW-188	MW-188-202104	4/14/2021	N	3.4	0.38 J	< 1.0 U
MW-188	MW-188-202110	10/19/2021	N	1.1	0.14 J	< 1.0 U
MW-188	MW-188-202204	4/13/2022	N	7.3	0.67 J	< 1.0 U
MW-188	MW-188-202210	10/19/2022	N	11.2	0.94 J	< 1.0 U
MW-188	MW-188-202304	4/19/2023	N	8.6	0.73 J	< 1.0 U
MW-188	MW-188-202310	10/20/2023	N	7.3	0.64 J	< 1.0 U
MW-188	MW-188-202404	4/17/2024	N	11.2	0.96 J	< 1.0 U
MW-188	MW-188-202410	10/9/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-189	MW-189A-GW-091715	9/17/2015	N	2.4	3.1	< 1.0 U
MW-189	MW-189-201510	10/5/2015	N	4.1	4.5	0.14 J
MW-189	MW-189-201601	1/7/2016	N	4.5	5.4	0.19 J
MW-189	MW-189-201605	5/4/2016	N	5.5	6.1	0.19 J
MW-189	MW-189-201611	11/7/2016	N	10.2	9.7	0.31 J
MW-189	MW-189-201704	4/26/2017	N	30.1	11.1	0.29 J
MW-189	MW-189-201710	10/25/2017	N	195	9.5	0.40 J
MW-189	MW-189-201804	4/19/2018	N	385	11.1	0.48 J
MW-189	MW-189-201811	11/15/2018	N	670	11.3	0.64 J
MW-189	MW-189-201904	4/25/2019	N	188	3.1	0.14 J
MW-189	MW-189-201910	10/24/2019	N	510	8.9	0.47 J
MW-189	DUP-08-201910	10/24/2019	FD	506	8.7	0.50 J
MW-189	MW-189-202005	5/13/2020	N	183	4.0	< 1.0 U
MW-189	MW-189-202010	10/6/2020	N	359	7.2	0.44 J
MW-189	MW-189-202104	4/14/2021	N	66.8	1.7	< 1.0 U
MW-189	MW-189-202110	10/21/2021	N	238	6.1	0.25 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-189	MW-189-202204	4/14/2022	N	231	7.1	0.37 J
MW-189	MW-189-202210	10/20/2022	N	221	7.0	0.23 J
MW-189	MW-189-202304	4/20/2023	N	249	8.8	0.27 J
MW-189	MW-189-202310	10/19/2023	N	261	9.6	0.27 J
MW-189	MW-189-202404	4/19/2024	N	371	11.7	0.49 J
MW-189	MW-189-202410	10/10/2024	N	340	10	< 1.0 U
MW-190	MW-190-GW-091415	9/14/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201804	4/18/2018	N	0.58 J	< 1.0 U	< 1.0 U
MW-190	MW-190-201811	11/15/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-190	MW-190-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-190	MW-190-201910	10/22/2019	N	< 1.0 U	0.21 J	< 1.0 U
MW-190	MW-190-202005	5/13/2020	N	2.7	1.7	< 1.0 U
MW-190	MW-190-202010	10/7/2020	N	14.5	3.0	< 1.0 U
MW-190	MW-190-202104	4/13/2021	N	111	4.8	< 1.0 U
MW-190	MW-190-202110	10/21/2021	N	199	4.6	0.22 J
MW-190	MW-190-202204	4/14/2022	N	409	7.2	< 1.0 U
MW-190	MW-190-202210	10/19/2022	N	319	4.7	0.28 J
MW-190	MW-190-202304	4/19/2023	N	439	5.6	< 1.0 U
MW-190	MW-190-202310	10/17/2023	N	533	6.5	0.32 J
MW-190	MW-190-202404	4/18/2024	N	536	7.9	0.60 J
MW-190	MW-190-202410	10/9/2024	N	490	1.5 J	< 5.0 U
MW-191	MW-191-GW-091515	9/15/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0
MW-191	MW-191-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201811	11/14/2018	N	< 1.0	< 1.0 U	< 1.0 U
MW-191	MW-191-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-202005	5/13/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-202110	10/18/2021	N	0.62 J	< 1.0 U	< 1.0 U
MW-191	MW-191-202204	4/13/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-191	MW-191-202210	10/17/2022	N	2.8	< 1.0 U	< 1.0 U
MW-191	MW-191-202304	4/18/2023	N	2.3	< 1.0 U	< 1.0 U
MW-191	MW-191-202310	10/16/2023	N	10.5	0.24 J	< 1.0 U
MW-191	MW-191-202404	4/17/2024	N	5.2	< 1.0 U	< 1.0 U
MW-191	MW-191-202410	10/10/2024	N	20	< 1.0 U	< 1.0 U
MW-192	MW-192-GW-091615	9/16/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201510	10/5/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201601	1/11/2016	N	0.30 J	< 1.0 U	< 1.0 U
MW-192	MW-192-201605	5/4/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201710	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	DUP-07-201811	11/14/2018	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202005	5/13/2020	N	0.58 J	< 1.0 U	< 1.0 U
MW-192	MW-192-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	DUP-04-202010	10/7/2020	FD	0.42 J	< 1.0 U	< 1.0 U
MW-192	MW-192-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202110	10/20/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202210	10/19/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-192	MW-192-202410	10/9/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-193	MW-193-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-193	MW-193-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-193	MW-193-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-194	MW-194-GW-080516	8/5/2016	N	6.6	0.66 J	< 1.0 U
MW-194	MW-194-201611	11/7/2016	N	12.7	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-194	MW-194-201704	4/26/2017	N	10.8	< 1.0 U	< 1.0 U
MW-194	MW-194-201710	10/23/2017	N	15.4	1.1	< 1.0 U
MW-194	MW-194-201804	4/17/2018	N	9.4	0.57 J	< 1.0 U
MW-194	MW-194-201807	7/31/2018	N	13.3	0.79 J	< 1.0 U
MW-194	MW-194-201811	11/14/2018	N	10.7	0.87 J	< 1.0 U
MW-194	MW-194-201904	4/25/2019	N	8.6	0.75 J	< 1.0 U
MW-194	MW-194-201910	10/23/2019	N	10.8	0.97 J	< 1.0 U
MW-194	MW-194-202005	5/14/2020	N	4.4	0.61 J	< 1.0 U
MW-194	MW-194-202010	10/7/2020	N	5.6	0.78 J	< 1.0 U
MW-194	MW-194-202104	4/14/2021	N	3.6	0.80 J	< 1.0 U
MW-194	MW-194-202110	10/20/2021	N	4.1	1.8	< 1.0 U
MW-194	MW-194-202204	4/13/2022	N	3.1	1.5	< 1.0 U
MW-194	MW-194-202210_3699	10/19/2022	N	3.8	1.8	< 1.0 U
MW-194	MW-194-202304	4/20/2023	N	8.3	3.1	< 1.0 U
MW-194	MW-194-202310	10/18/2023	N	7.1	2.6	< 1.0 U
MW-194	MW-194-202404	4/17/2024	N	9.3	5.8	< 1.0 U
MW-194	MW-194-202411	11/20/2024	N	6.7	3.0	< 1.0 U
MW-195	MW-195-GW-080516	8/5/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201704	4/28/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201710	10/23/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	DUP-02-201804	4/17/2018	FD	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-195	MW-195-202005	5/12/2020	N	0.22 J	< 1.0 U	< 1.0 U
MW-195	MW-195-202010	10/6/2020	N	0.35 J	< 1.0 U	< 1.0 U
MW-195	MW-195-202104	4/13/2021	N	0.52 J	< 1.0 U	< 1.0 U
MW-195	MW-195-202110	10/19/2021	N	0.49 J	< 1.0 U	< 1.0 U
MW-195	DUP-05-202110	10/19/2021	FD	0.40 J	< 1.0 U	< 1.0 U
MW-195	MW-195-202204	4/12/2022	N	1.0	< 1.0 U	< 1.0 U
MW-195	DUP-06-202204	4/12/2022	FD	0.93 J	< 1.0 U	< 1.0 U
MW-195	MW-195-202210	10/18/2022	N	3.0	< 1.0 U	< 1.0 U
MW-195	DUP-06-202210	10/18/2022	FD	3.0	0.20 J	< 1.0 U
MW-195	MW-195-202304	4/18/2023	N	5.1	< 1.0 U	< 1.0 U
MW-195	DUP-06-202304	4/18/2023	FD	4.6	0.26 J	< 1.0 U
MW-195	MW-195-202310	10/17/2023	N	5.6	0.30 J	< 1.0 U
MW-195	DUP-05-202310	10/17/2023	FD	5.3	0.30 J	< 1.0 U
MW-195	MW-195-202404	4/16/2024	N	0.37 J	< 1.0 U	< 1.0 U
MW-195	DUP-05-202404	4/16/2024	FD	0.34 J	0.14 J	< 1.0 U
MW-195	MW-195-202410	10/8/2024	N	2.8	< 1.0 U	< 1.0 U
MW-195	DUP-05-202410	10/8/2024	FD	2.8	< 1.0 U	< 1.0 U
MW-196	MW-196-GW-080516	8/5/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201611	11/9/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201704	4/26/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202010	10/6/2020	N	0.54 J	< 1.0 U	< 1.0 U
MW-196	MW-196-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202210	10/18/2022	N	0.33 J	< 1.0 U	< 1.0 U
MW-196	MW-196-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-196	MW-196-202411	11/19/2024	N	0.31 J	< 1.0 U	< 1.0 U
MW-197	MW-197-WG-2020922	9/22/2020	N	17.0	7.8	0.99 J
MW-197	MW-197-202010	10/6/2020	N	20.1	8.4	0.96 J
MW-197	MW-197-202104	4/14/2021	N	22.1	6.7	0.43 J
MW-197	MW-197-202204	4/13/2022	N	2.8	17.8	< 1.0 U
MW-197	MW-197-202304	4/19/2023	N	2.1	17.4	< 1.0 U
MW-197	MW-197-202310	10/18/2023	N	1.3	14.7	< 1.0 U
MW-197	MW-197-202404	4/16/2024	N	1.1	12.7	< 1.0 U
MW-197	MW-197-202410	10/10/2024	N	1.4	7.8	< 1.0 U
MW-198	MW-198-202010	10/8/2020	N	20600	1550	84.4
MW-198	MW-198-202104	4/14/2021	N	15900	1320	56.0
MW-198	MW-198-202110	10/21/2021	N	22800	1540	86.5
MW-198	MW-198-202204	4/14/2022	N	10400	947	81.9
MW-198	MW-198-202210_3912	10/21/2022	N	18800	1720	95.4
MW-198	MW-198-202304	4/20/2023	N	20800	1530	111
MW-198	MW-198-202310	10/19/2023	N	31400	2650	129 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-198	MW-198-202404	4/19/2024	N	14000	1180	67.3
MW-198	MW-198-202410	10/10/2024	N	430 J-	2100 J-	410 J-
MW-199	MCP-HP-06-WG-22	7/15/2020	N	41.8	4.7	0.40 J
MW-199	MW-199-WG-2020922	9/22/2020	N	66.7	5.1	0.35 J
MW-199	MW-199-202010	10/6/2020	N	92.3	6.7	0.35 J
MW-199	MW-199-202104	4/14/2021	N	84.1	7.4	0.32 J
MW-199	MW-199-202110	10/21/2021	N	82.3	10.2	< 1.0 U
MW-199	MW-199-202204	4/14/2022	N	75.2	10.1	< 1.0 U
MW-199	MW-199-202210	10/20/2022	N	83.0	10.2	< 1.0 U
MW-199	MW-199-202304	4/19/2023	N	101	9.9	< 1.0 U
MW-199	MW-199-202310	10/19/2023	N	93.1	10.5	< 1.0 U
MW-199	MW-199-202404	4/15/2024	N	83.6	8.1	< 1.0 U
MW-199	MW-199-202410	10/10/2024	N	82	7.8	< 1.0 U
MW-200	NE-HP-01	7/14/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-200	MW-200-202010	10/8/2020	N	0.25 J	< 1.0 U	< 1.0 U
MW-200	MW-200-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-200	MW-200-202110	10/19/2021	N	1.0	0.13 J	< 1.0 U
MW-200	MW-200-202204	4/12/2022	N	2.9	< 1.0 U	< 1.0 U
MW-200	MW-200-202210	10/18/2022	N	7.4	0.59 J	< 1.0 U
MW-200	MW-200-202304	4/18/2023	N	18.8	1.7	< 1.0 U
MW-200	MW-200-202310	10/17/2023	N	26.5	2.4	< 1.0 U
MW-200	MW-200-202404	4/16/2024	N	39.9	3.2	< 1.0 U
MW-200	MW-200-202410	10/7/2024	N	38	3.6	< 1.0 U
MW-201	HM-HP-05-WG-37	7/15/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202104	4/13/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202210	10/19/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202304	4/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202404	4/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-201	MW-201-202410	10/10/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-202	NE-HP-02-WG-24.7	7/15/2020	N	1.5	0.36 J	< 1.0 U
MW-202	MW-202-202010	10/8/2020	N	9.3	1.1	< 1.0 U
MW-202	MW-202-202104	4/14/2021	N	33.3	3.2	< 1.0 U
MW-202	MW-202-202110	10/20/2021	N	67.3	6.1	< 1.0 U
MW-202	MW-202-202204	4/13/2022	N	96.7	9.0	< 1.0 U
MW-202	MW-202-202210	10/20/2022	N	158	15.7	< 1.0 U
MW-202	MW-202-202304	4/19/2023	N	165	18.3	< 1.0 U
MW-202	MW-202-202310	10/19/2023	N	276	24.0	< 1.0 U
MW-202	MW-202-202404	4/17/2024	N	304	26.0	< 1.0 U
MW-202	MW-202-202410	10/9/2024	N	350	32	< 2.0 U
MW-203	MW-203-WG-20200925	9/25/2020	N	0.57 J	< 1.0 U	< 1.0 U
MW-203	MW-203-202104	4/14/2021	N	3.7	0.22 J	< 1.0 U
MW-203	MW-203-202110	10/19/2021	N	102	2.9	< 1.0 U
MW-203	MW-203-202204	4/14/2022	N	92.4	2.2	< 1.0 U
MW-203	MW-203-202210	10/19/2022	N	228	5.7	< 1.0 U
MW-203	MW-203-202304	4/19/2023	N	247	6.9	< 1.0 U
MW-203	MW-203-202310	10/17/2023	N	330	9.3	0.22 J
MW-203	MW-203-202404	4/18/2024	N	338	7.1	0.17 J
MW-203	MW-203-202410	10/8/2024	N	290	8.2	< 1.0 U
MW-204	MW-204-WG-20200925	9/25/2020	N	34.8	3.0	< 1.0 U
MW-204	MW-204-202010	10/8/2020	N	55.6	4.1	< 1.0 U
MW-204	MW-204-202104	4/13/2021	N	46.3	4.0	< 1.0 U
MW-204	MW-204-202110	10/20/2021	N	49.6	3.2	< 1.0 U
MW-204	MW-204-202204	4/14/2022	N	45.2	4.1	< 1.0 U
MW-204	MW-204-202210	10/20/2022	N	39.4	4.8	< 1.0 U
MW-204	MW-204-202304	4/19/2023	N	40.4	3.2	< 1.0 U
MW-204	MW-204-202310	10/18/2023	N	40.7	3.1	< 1.0 U
MW-204	MW-204-202404	4/16/2024	N	35.1	2.3	< 1.0 U
MW-204	MW-204-202411	11/19/2024	N	32	1.9	< 1.0 U
MW-205	MW-205-202110	10/21/2021	N	400	135	0.74 J
MW-205	MW-205-202204	4/14/2022	N	539	153	1.0
MW-205	MW-205-202210	10/19/2022	N	500	102	0.32 J
MW-205	MW-205-202304	4/19/2023	N	566	130	0.74 J
MW-205	MW-205-202310	10/19/2023	N	582	122	0.90 J
MW-205	MW-205-202404	4/18/2024	N	667	101	0.79 J
MW-205	MW-205-202410	10/10/2024	N	690	100	< 2.0 U
MW-206	MW-206-202110	10/20/2021	N	1.2	0.41 J	< 1.0 U
MW-206	MW-206-202204	4/13/2022	N	1.9	0.62 J	< 1.0 U
MW-206	MW-206-202210	10/18/2022	N	3.9	0.58 J	< 1.0 U
MW-206	MW-206-202304	4/19/2023	N	5.9	0.79 J	< 1.0 U
MW-206	MW-206-202310	10/17/2023	N	7.9	0.90 J	< 1.0 U
MW-206	MW-206-202404	4/17/2024	N	10	1.0	< 1.0 U
MW-206	MW-206-202410	10/8/2024	N	7.9	0.77 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
MW-207	MW-207-202410	10/7/2024	N	26	4.1	< 1.0 U
MW-208	MW-208-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-209	MW-209-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-210	MW-210-202412	12/16/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-211	MW-211-202410	10/7/2024	N	35	5.6	< 1.0 U
MW-212	MW-212-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-213	MW-213-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
MW-214	MW-214-202412	12/3/2024	N	28	47	1.1
MW-215	MW-215-202410	10/11/2024	N	950	45	< 10 U
MW-216	MW-216-202412	12/3/2024	N	620	38	0.79 J
MW-217	MW-217-202412	12/3/2024	N	0.30 J	< 1.0 U	< 1.0 U
MW-218	MW-218-202412	12/3/2024	N	1300	54	< 10 U
MW-219	MW-219-202412	12/3/2024	N	960	87	< 5.0 U
NE-HP-03	NE-HP-03-WG-24.3	7/15/2020	N	0.17 J	< 1.0 U	< 1.0 U
NE-Manhole-SW	NE-MANHOLE-SW-20140818	8/18/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
RW-1	RW-1-202110	10/22/2021	N	36000	2580	12.7
RW-1	RW-1-202210	10/20/2022	N	82400	17100	< 1000 U
RW-1	RW-1-202310	10/18/2023	N	62300	55700	389 J
RW-1	RW-1-202410	10/11/2024	N	71000	42000	< 500 U
RW-69	RW -69-20090115-FS	1/15/2009	N	170	7.1	< 5 U
RW-69	RW-69-20090424-FS	4/24/2009	N	62	< 5 U	< 5 U
RW-69	RW-69-20090527-FS	5/27/2009	N	290	10	< 5 U
RW-69	RW-69-20091221-FS	12/21/2009	N	200	6.3	< 5.0 U
RW-69	RW-69-20100513-FS	5/13/2010	N	170	8.2	< 5 U
RW-69	RW-69-20101104-FS	11/4/2010	N	320	9	< 5 U
RW-69	RW-69-20110303-FS	3/3/2011	N	200	7.1	< 5.0 U
RW-69	RW-69-20110523-FS	5/23/2011	N	130	3.0 J	
RW-69	RW-69-20111026-FS	10/26/2011	N	210	5.7	< 5 U
RW-69	RW-69-20120418-FS	4/18/2012	N	150	3.6 J	< 5 U
RW-69	RW-69-20121018	10/18/2012	N	180	5.0	< 2.0 U
RW-69	RW-69-20130423	4/23/2013	N	190	2.8 J	< 2.0 U
RW-69	RW-69-101613	10/16/2013	N	190	7.7	< 2.0 U
RW-69	RW-69-201403	3/7/2014	N	105	3.5 J	0.41 J
RW-69	RW-69-201405	5/13/2014	N	110	3.3 J	0.30 J
RW-69	RW-69R-201407	7/29/2014	N	164	5.6	0.50 J
RW-69	RW-69-201410	10/14/2014	N	173	6.9	< 2.0 U
RW-69	RW-69-201501	1/14/2015	N	115	4.7	< 1.0 U
RW-69	RW-69-201504	4/14/2015	N	113	4.5	< 1.0 U
RW-69	RW-69-201507	7/21/2015	N	135	5.5	0.31 J
RW-69	RW-69-201510	10/6/2015	N	184	6.7	0.24 J
RW-69	RW-69-201601	1/12/2016	N	128	4.6	< 1.0 U
RW-69	RW-69-201605	5/3/2016	N	91.1	4.1	< 1.0 U
RW-69	RW-69-201611	11/9/2016	N	185	6.2	0.26 J
RW-69	RW-69-201704	4/27/2017	N	158	4.6	< 1.0 U
RW-69	RW-69-201710	10/24/2017	N	159	5.2	0.21 J
RW-69	RW-69-201804	4/18/2018	N	110	5.0	0.19 J
RW-69	RW-69-201811	11/14/2018	N	141 J+	5.4	0.53 J
RW-69	RW-69-201904	4/24/2019	N	99.9	4.4	0.16 J
RW-69	RW-69-201910	10/23/2019	N	150	5.6	0.53 J
RW-69	RW-69-202005	5/13/2020	N	102	4.4	0.30 J
RW-69	DUP-06-202005	5/13/2020	FD	101	4.3	0.23 J
RW-69	RW-69-202010	10/6/2020	N	101 J-	4.6	0.60 J
RW-69	RW-69-202104	4/13/2021	N	52.8	2.8	0.34 J
RW-69	RW-69-202110	10/21/2021	N	44.4	49.3	0.69 J
RW-69	RW-69-202204	4/14/2022	N	88.7	8.4	< 1.0 U
RW-69	RW-69-202210_3699	10/19/2022	N	97.6	7.8	0.30 J
RW-69	RW-69-202304	4/19/2023	N	130	3.5	0.29 J
RW-69	RW-69-202310	10/19/2023	N	89.0	6.1	0.43 J
RW-69	RW-69-202404	4/18/2024	N	60.2	3.4	0.35 J
RW-69	RW-69-202410	10/10/2024	N	63	3.4	< 1.0 U
SLUG-01	SLUG-01-GW-20140108	1/8/2014	N	230	7.7	< 2.0 U
SLUG-02	SLUG-02-GW-20140108	1/8/2014	N	300	11	< 2.0 U
SLUG-06	SLUG-06-GW-20140112	1/12/2014	N	11000	620	31
SV-04D	SV-04D-20140916	9/16/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
TMW-01	TMW-01-062613-GW	6/26/2013	N	< 5.0 U	< 5.0 U	
TMW-01	TMW-01-062613-LL	6/26/2013	N			< 2.0 U
TMW-02	TMW-02-062613-GW	6/26/2013	N	< 5.0 U	< 5.0 U	
TMW-02	TMW-02-062613-LL	6/26/2013	N			< 2.0 U
TMW-04	TMW-04-062613-GW	6/26/2013	N	< 5.0 U	< 5.0 U	
TMW-04	TMW-04-062613-LL	6/26/2013	N			< 2.0 U
TMW-05	TMW-05-062613-GW	6/26/2013	N	< 5.0 U	< 5.0 U	
TMW-05	TMW-05-062613-LL	6/26/2013	N			< 2.0 U
TMW-10	TMW-10-GW-091815	9/18/2015	N	190	1.9	< 1.0 U
TMW-10	TMW-10-201510	10/8/2015	N	102	1.1	< 1.0 U
TMW-10	TMW-10-201511	11/4/2015	N	120	0.72 J	< 1.0 U
TMW-10	TMW-10-201512	12/1/2015	N	114	0.88 J	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
TMW-10	TMW-10-201601	1/8/2016	N	103	3.1	< 1.0 U
TMW-10	TMW-10-201605	5/4/2016	N	123	12.9	< 1.0 U
TMW-10	TMW-10-201611	11/8/2016	N	95.4	4.4	< 1.0 U
TMW-10	TMW-10-201704	4/27/2017	N	96.2	5.1	0.32 J
TMW-10	DUP-05-201704	4/27/2017	FD	102	5.9	0.38 J
TMW-10	TMW-10-201710	10/24/2017	N	89.5	4.5	0.91 J
TMW-10	TMW-10-201804	4/18/2018	N	85.0	5.2	0.46 J
TMW-10	TMW-10-201807	7/31/2018	N	91.1	5.9	0.66 J
TMW-10	TMW-10-201811	11/13/2018	N	14.3	15.0	6.2
TMW-10	TMW-10-201904	4/25/2019	N	11.5	2.4	3.7
TMW-10	TMW-10-201910	10/22/2019	N	8.6	1.4	2.4
TMW-10	TMW-10-202005	5/14/2020	N	2.5	0.67 J	2.8
TMW-10	TMW-10-202010	10/5/2020	N	4.8	0.86 J	3.8
TMW-10	TMW-10-202104	4/14/2021	N	0.90 J	0.53 J	3.8
TMW-10	TMW-10-202110	10/19/2021	N	0.59 J	0.46 J	2.2
TMW-10	TMW-10-202204	4/12/2022	N	0.65 J	< 1.0 U	< 1.0 U
TMW-10	TMW-10-202210_3699	10/19/2022	N	2.1	0.71 J	3.8
TMW-10	TMW-10-202304	4/19/2023	N	1.2	0.65 J	3.3
TMW-10	TMW-10-202310	10/18/2023	N	4.4	1.6	4.8
TMW-10	TMW-10-202404	4/17/2024	N	2.4	0.80 J	4.8
TMW-10	TMW-10-202410	10/10/2024	N	5.0	1.2	6.5
TMW-11	TMW-11-GW-091815	9/18/2015	N	31.1	0.15 J	< 1.0 U
TMW-11	TMW-11-201510	10/8/2015	N	14.3	< 1.0 U	< 1.0 U
TMW-11	TMW-11-201511	11/4/2015	N	6.3	2.5	< 1.0 U
TMW-11	TMW-11-201512	12/1/2015	N	0.63 J	5.8	< 1.0 U
TMW-11	TMW-11-201601	1/8/2016	N	3.1	5.3	< 1.0 U
TMW-11	TMW-11-201605	5/3/2016	N	8.1	3.6	< 1.0 U
TMW-11	TMW-11-201611	11/8/2016	N	1.2	4.7	< 1.0 U
TMW-11	TMW-11-201704	4/27/2017	N	0.85 J	3.6	0.36 J
TMW-11	TMW-11-201710	10/23/2017	N	0.62 J	1.7	0.70 J
TMW-11	TMW-11-201804	4/17/2018	N	0.67 J	1.2	0.59 J
TMW-11	TMW-11-201811	11/13/2018	N	0.40 J	0.73 J	0.46 J
TMW-11	TMW-11-201904	4/25/2019	N	1.4	0.78 J	0.64 J
TMW-11	TMW-11-201910	10/22/2019	N	0.70 J	0.79 J	0.29 J
TMW-11	TMW-11-202005	5/14/2020	N	0.75 J	0.55 J	< 1.0 U
TMW-11	TMW-11-202010	10/5/2020	N	0.70 J	0.66 J	0.34 J
TMW-11	TMW-11-202104	4/14/2021	N	< 1.0 U	0.18 J	< 1.0 U
TMW-11	TMW-11-202110	10/20/2021	N	< 1.0 U	0.22 J	< 1.0 U
TMW-11	TMW-11-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-11	TMW-11-202210_3699	10/19/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-11	TMW-11-202304	4/19/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-11	TMW-11-202310	10/18/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-11	TMW-11-202404	4/17/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-11	TMW-11-202410	10/11/2024	N	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
TMW-12	TMW-12-201704	4/27/2017	N	463	12.0	0.34 J
TMW-12	TMW-12-201804	4/18/2018	N	563	12.0	0.37 J
TMW-12	TMW-12-201811	11/15/2018	N	429	13.7	0.41 J
TMW-12	DUP-04-201811	11/15/2018	FD	470	12.8	0.37 J
TMW-12	TMW-12-201904	4/24/2019	N	470	11.9	0.37 J
TMW-12	TMW-12-201910	10/23/2019	N	471	10.1	0.26 J
TMW-12	TMW-12-202005	5/12/2020	N	372	10.3	0.21 J
TMW-12	TMW-12-202010	10/7/2020	N	415	11.1	0.32 J
TMW-12	TMW-12-202104	4/14/2021	N	335	10	0.33 J
TMW-12	TMW-12-202110	10/21/2021	N	366	8.9	0.20 J
TMW-12	DUP-08-202110	10/21/2021	FD	359	9.6	0.23 J
TMW-12	TMW-12-202204	4/14/2022	N	368	9.4	0.28 J
TMW-12	TMW-12-202210	10/20/2022	N	330	8.4	0.22 J
TMW-12	DUP-07-202210	10/20/2022	FD	318	9.0	0.20 J
TMW-12	TMW-12-202304	4/20/2023	N	282	8.7	0.21 J
TMW-12	TMW-12-202310	10/18/2023	N	323	8.5	0.19 J
TMW-12	DUP-09-202310	10/18/2023	FD	328	8.8	0.20 J
TMW-12	TMW-12-202404	4/18/2024	N	305	8.5	0.27 J
TMW-12	TMW-12-202410	10/10/2024	N	240	6.5	< 1.0 U
TMW-12	DUP-08-202410	10/10/2024	FD	280	6.1	< 1.0 U
TMW-13	TMW-13-201704	4/27/2017	N	193	4.2	0.15 J
TMW-14	TMW-14-201704	4/27/2017	N	10.9	0.29 J	< 1.0 U
TMW-14	TMW-14-201804	4/18/2018	N	2.1	< 1.0 U	< 1.0 U
TMW-14	DUP-03-201804	4/18/2018	FD	2.0	< 1.0 U	< 1.0 U
TMW-14	TMW-14-201811	11/14/2018	N	0.24 J	< 1.0 U	< 1.0 U
TMW-14	TMW-14-201904	4/24/2019	N	10.1 J+	0.39 J	< 1.0 U
TMW-14	TMW-14-201910	10/23/2019	N	2.6	0.60 J	< 1.0 U
TMW-14	TMW-14-202005	5/11/2020	N	0.60 J	< 1.0 U	< 1.0 U
TMW-14	TMW-14-202010	10/7/2020	N	3.0	3.2	< 1.0 U
TMW-14	TMW-14-202110	10/20/2021	N	0.55 J	0.64 J	< 1.0 U
TMW-14	TMW-14-202210	10/19/2022	N	6.1	7.2	< 1.0 U
TMW-14	TMW-14-202310	10/17/2023	N	3.3	2.1	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
TMW-14	TMW-14-202410	10/8/2024	N	2.8	6.3	< 1.0 U
TMW-15	TMW-15-201704	4/26/2017	N	5.3	0.41 J	< 1.0 U
TMW-16	TMW-16-201704	4/25/2017	N	682	8.4	0.57 J
TMW-16	TMW-16-201710	10/24/2017	N	956	10.4	< 1.0 U
TMW-16	TMW-16-20180402	4/2/2018	N	985	11.5	0.78 J
TMW-16	TMW-16-201804	4/19/2018	N	1030	13.6	0.90 J
TMW-16	TMW-16-201807	8/2/2018	N	988	15.1	0.81 J
TMW-16	TMW-16-201811	11/16/2018	N	368	29.1	1.6 J
TMW-16	TMW-16-201904	4/25/2019	N	23.8	236	1.4
TMW-16	TMW-16-201910	10/23/2019	N	6.0	8.8	2.4
TMW-16	TMW-16-202005	5/14/2020	N	0.71 J	1.0 J	0.57 J
TMW-16	TMW-16-202010	10/8/2020	N	0.59 J	1.2 J+	0.38 J
TMW-16	TMW-16-202104	4/13/2021	N	0.68 J	0.45 J	0.52 J
TMW-16	TMW-16-202110	10/19/2021	N	0.31 J	1.2	0.77 J
TMW-16	TMW-16-202210_3494	10/18/2022	N	0.54 J	0.57 J	0.62 J
TMW-16	TMW-16-202310	10/20/2023	N	31.8	0.67 J	0.74 J
TMW-16	TMW-16-202411	11/20/2024	N	6.6	1.5	3.0
TMW-17	TMW-17-201704	4/25/2017	N	154	7.6	0.37 J
TMW-18	TMW-18-201704	4/25/2017	N	0.60 J	0.72 J	< 1.0 U
TMW-188	MW-188-GW-091415	9/14/2015	N	2.0 J	2.4 J	< 5.0 U
TMW-189	MW-189-GW-091515	9/15/2015	N	2.6	4.7	0.22 J
TMW-19	TMW-19-201704	4/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-19	DUP-01-201704	4/25/2017	FD	0.30 J	< 1.0 U	< 1.0 U
TMW-19	TMW-19-201710	10/24/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-19	TMW-19-201804	4/19/2018	N	0.41 J	0.32 J	< 1.0 U
TMW-19	TMW-19-201811	11/14/2018	N	0.97 J	0.69 J	< 1.0 U
TMW-19	TMW-19-201904	4/24/2019	N	5.6	1.1	< 1.0 U
TMW-19	TMW-19-201910	10/23/2019	N	13.6	1.6	< 1.0 U
TMW-19	DUP-06-201910	10/23/2019	FD	12.2	1.5	< 1.0 U
TMW-19	TMW-19-202005	5/13/2020	N	7.8	0.97 J	< 1.0 U
TMW-19	TMW-19-202010	10/5/2020	N	16.0	1.7	< 1.0 U
TMW-19	TMW-19-202104	4/14/2021	N	9.5	0.63 J	< 1.0 U
TMW-19	TMW-19-202110	10/22/2021	N	40.4	2.6	< 1.0 U
TMW-19	TMW-19-202204	4/14/2022	N	66.5	4.0	< 1.0 U
TMW-19	TMW-19-202210	10/18/2022	N	31.8	2.7	< 1.0 U
TMW-19	TMW-19-202304	4/19/2023	N	72.8	3.8	0.17 J
TMW-19	TMW-19-202310	10/17/2023	N	88.5	4.7	< 1.0 U
TMW-19	TMW-19-202404	4/18/2024	N	121	4.9	0.26 J
TMW-19	TMW-19-202410	10/8/2024	N	78	3.8	< 1.0 U
TMW-20	TMW-20-201710	10/10/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-20171023	10/23/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	FD-01-201710	10/23/2017	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	DUP-01-201811	11/13/2018	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-202005	5/14/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-20	TMW-20-202110	10/19/2021	N	< 1.0 U	0.28 J	< 1.0 U
TMW-20	TMW-20-202210	10/18/2022	N	0.21 J	< 1.0 U	< 1.0 U
TMW-20	TMW-20-202310	10/17/2023	N	0.24 J	< 1.0 U	< 1.0 U
TMW-20	TMW-20-202410	10/7/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-21	TMW-21-201710	10/10/2017	N	375	8.7	0.16 J
TMW-21	TMW-21-20171024	10/24/2017	N	461	9.2	< 1.0 U
TMW-21	TMW-21-201804	4/18/2018	N	340	7.4	< 1.0 U
TMW-21	TMW-21-20180419	4/19/2018	N	420	10.0	0.21 J
TMW-21	TMW-21-201807	7/31/2018	N	564	12.6	0.31 J
TMW-21	TMW-21-201811	11/15/2018	N	22.1 J-	86.3 J-	0.52 J
TMW-21	TMW-21-201904	4/25/2019	N	47.0	27.7	5.9
TMW-21	TMW-21-201910	10/22/2019	N	21.8	13.5	1.9
TMW-21	TMW-21-202005	5/14/2020	N	3.8	6.8	1.9
TMW-21	TMW-21-202010	10/6/2020	N	7.2	3.2	1.9
TMW-21	TMW-21-202104	4/14/2021	N	2.3	1.3	1.5
TMW-21	TMW-21-202110	10/20/2021	N	5.2	2.1	1.7
TMW-21	TMW-21-202204	4/14/2022	N	0.68 J	0.83 J	< 1.0 U
TMW-21	TMW-21-202210_3494	10/18/2022	N	2.8	1.3	2.0
TMW-21	TMW-21-202304	4/20/2023	N	0.41 J	0.30 J	0.64 J
TMW-21	TMW-21-202310	10/17/2023	N	3.7	1.9	6.2
TMW-21	TMW-21-202404	4/17/2024	N	0.55 J	0.37 J	0.91 J
TMW-21	TMW-21-202410	10/9/2024	N	1.3	< 1.0 U	3.1
TMW-22	TMW-22-20171013	10/13/2017	N	636	13.9	< 1.0 U
TMW-22	TMW-22-201710	10/24/2017	N	486	9.8	< 1.0 U
TMW-22	TMW-22-201804	4/18/2018	N	224	20.1	< 1.0 U
TMW-22	TMW-22-201807	8/1/2018	N	460	28.7	0.20 J
TMW-22	TMW-22R-201811	11/15/2018	N	347	71.2	0.16 J

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
TMW-22	TMW-22R-201904	4/25/2019	N	202	184	8.3
TMW-22R	TMW-22R-201910	10/23/2019	N	146	126	7.9
TMW-22R	TMW-22R-202005	5/14/2020	N	61.1	94.6	26.3
TMW-22R	TMW-22R-202010	10/6/2020	N	56.6	70.3	15.4
TMW-22R	TMW-22R-202104	4/14/2021	N	67.6	129	57.7
TMW-22R	TMW-22R-202110	10/21/2021	N	21.9	24.7	12.8
TMW-22R	TMW-22R-202204	4/14/2022	N	88.3	124	< 1.0 U
TMW-22R	TMW-22R-202210	10/20/2022	N	35.9	35.6	21.4
TMW-22R	TMW-22R-202304	4/19/2023	N	127	91.9	33.0
TMW-22R	TMW-22R-202310	10/19/2023	N	52.2	37.8	21.0
TMW-22R	TMW-22R-202404	4/18/2024	N	106	62.0	36.5
TMW-22R	TMW-22R-202410	10/10/2024	N	44	37	19
TMW-23	TMW-23-20171013	10/13/2017	N	131	2.0	< 1.0 U
TMW-23	TMW-23-201710	10/25/2017	N	62.2	0.89 J	< 1.0 U
TMW-23	TMW-23-201804	4/18/2018	N	125	1.5	< 1.0 U
TMW-23	TMW-23-201811	11/16/2018	N	110	1.2	< 1.0 U
TMW-23	DUP-03-201811	11/16/2018	FD	116	1.6	< 1.0 U
TMW-23	TMW-23-201904	4/24/2019	N	190	2.3	< 1.0 U
TMW-23	TMW-23-2019110	10/23/2019	N	189	2.5	< 1.0 U
TMW-23	TMW-23-202005	5/11/2020	N	182	2.9	< 1.0 U
TMW-23	TMW-23-202010	10/7/2020	N	168	3.0	< 1.0 U
TMW-23	DUP-03-202010	10/7/2020	FD	164	2.9	< 1.0 U
TMW-23	TMW-23-202104	4/14/2021	N	179	3.1	< 1.0 U
TMW-23	DUP-09-202104	4/14/2021	FD	172	3.1	< 1.0 U
TMW-23	TMW-23-202110	10/20/2021	N	186	2.9	< 1.0 U
TMW-23	TMW-23-202204	4/14/2022	N	194	3.1	< 1.0 U
TMW-23	TMW-23-202210	10/20/2022	N	154	6.0	< 1.0 U
TMW-23	TMW-23-202304	4/20/2023	N	187	3.7	< 1.0 U
TMW-23	TMW-23-202310	10/18/2023	N	191	2.8	< 1.0 U
TMW-23	TMW-23-202404	4/18/2024	N	167	3.1	< 1.0 U
TMW-23	TMW-23-202411	11/20/2024	N	160	< 1.0 U	< 1.0 U
TMW-24	TMW-24-201710	10/10/2017	N	309	7.7	0.18 J
TMW-24	TMW-24-20171024	10/24/2017	N	385	8.1	< 1.0 U
TMW-24	TMW-24-201804	4/18/2018	N	601	11.9	0.25 J
TMW-24	TMW-24-201811	11/15/2018	N	540	10.9	0.25 J
TMW-24	TMW-24-201904	4/24/2019	N	565	12.3	0.47 J
TMW-24	TMW-24-2019110	10/23/2019	N	575	11.8	0.20 J
TMW-24	TMW-24-202005	5/12/2020	N	560	10.9	0.20 J
TMW-24	TMW-24-202010	10/6/2020	N	495	11.1	< 1.0 U
TMW-24	TMW-24-202104	4/14/2021	N	484	12.5	< 1.0 U
TMW-24	TMW-24-202110	10/21/2021	N	487	11.3	0.24 J
TMW-24	TMW-24-202204	4/14/2022	N	440	9.2	< 1.0 U
TMW-24	TMW-24-202210	10/20/2022	N	393	8.7	< 1.0 U
TMW-24	TMW-24-202304	4/20/2023	N	315	10.8	0.25 J
TMW-24	TMW-24-202310	10/19/2023	N	445	11.2	< 1.0 U
TMW-24	TMW-24-202404	4/18/2024	N	394	9.0	< 1.0 U
TMW-24	TMW-24-202410	10/11/2024	N	360	9.9	< 5.0 U
TMW-25	TMW-25-201710	10/11/2017	N	140	8.8	0.19 J
TMW-25	TMW-25-20171025	10/25/2017	N	245	11.2	0.41 J
TMW-25	TMW-25-201804	4/19/2018	N	240	10.9	0.29 J
TMW-25	TMW-25-201811	11/15/2018	N	58.6 J-	11.0 J-	< 5.0 UJ
TMW-25	TMW-25-201904	4/25/2019	N	38.6	47.7	0.39 J
TMW-25	TMW-25-201910	10/24/2019	N	23.6	39.9	0.41 J
TMW-25	TMW-25-202005	5/14/2020	N	17.0	5.5	1.2
TMW-25	TMW-25-202010	10/7/2020	N	3.1	1.1	< 1.0 U
TMW-25	TMW-25-202104	4/13/2021	N	3.2	1.0	0.74 J
TMW-25	TMW-25-202110	10/20/2021	N	6.8	1.4	0.45 J
TMW-25	TMW-25-202204	4/13/2022	N	4.1	0.99 J	< 1.0 U
TMW-25	TMW-25-202210_3699	10/19/2022	N	2.4	0.81 J	0.60 J
TMW-25	TMW-25-202304	4/19/2023	N	2.1	0.42 J	0.31 J
TMW-25	TMW-25-202310	10/20/2023	N	3.4	0.80 J	0.35 J
TMW-25	TMW-25-202404	4/17/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-25	TMW-25-202410	10/9/2024	N	4.8	0.99 J	< 1.0 U
TMW-26	TMW-26-201710	10/11/2017	N	185	4.2	0.23 J
TMW-26	TMW-26-20171024	10/24/2017	N	36.3	< 1.0 U	< 1.0 U
TMW-26	TMW-26-20180402	4/2/2018	N	35.4	0.98 J	< 1.0 U
TMW-26	TMW-26-201804	4/19/2018	N	28.3	1.1	< 1.0 U
TMW-26	TMW-26-201807	8/2/2018	N	96.1	2.5	0.23 J
TMW-26	TMW-26-201811	11/15/2018	N	54.4 J-	11.1 J-	< 5.0 UJ
TMW-26	TMW-26-201904	4/25/2019	N	128	46.3	0.29 J
TMW-26	TMW-26-201910	10/23/2019	N	42.9	53.3	2.9
TMW-26	TMW-26-202005	5/14/2020	N	4.1	2.5	0.71 J
TMW-26	TMW-26-202010	10/7/2020	N	3.7	1.1	0.99 J
TMW-26	TMW-26-202104	4/13/2021	N	1.9	0.68 J	0.56 J
TMW-26	TMW-26-202110	10/19/2021	N	2.7	0.88 J	0.44 J
TMW-26	TMW-26-202204	4/14/2022	N	2.3	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
TMW-26	TMW-26-202210_3494	10/18/2022	N	1.8	0.53 J	0.74 J
TMW-26	TMW-26-202304	4/19/2023	N	1.5	0.40 J	0.52 J
TMW-26	TMW-26-202310	10/20/2023	N	37.2	0.75 J	0.62 J
TMW-26	TMW-26-202404	4/17/2024	N	0.52 J	0.25 J	0.81 J
TMW-26	TMW-26-202411	11/20/2024	N	2.9	1.0	1.1
TMW-27	TMW-27-201710	10/11/2017	N	0.20 J	< 1.0 U	< 1.0 U
TMW-27	TMW-27-20171025	10/25/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-20180402	4/2/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-201804	4/18/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-201811	11/14/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202005	5/14/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	DUP-06-202010	10/7/2020	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202210	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202310	10/20/2023	N	1.3	< 1.0 U	< 1.0 U
TMW-27	TMW-27-202410	10/9/2024	N	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
TMW-28	TMW-28-20171010	10/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-20171010	10/12/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-201710	10/23/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-201804	4/17/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-201811	11/13/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-201904	4/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202005	5/12/2020	N	0.12 J	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202010	10/5/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	DUP-01-202204	4/12/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202210	10/17/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202304	4/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	DUP-02-202304	4/17/2023	FD	0.56 J	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202310	10/16/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202404	4/15/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	DUP-01-202404	4/15/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-29	TMW-29-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-30	TMW-30-20171013	10/13/2017	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-30	TMW-30-201710	10/24/2017	N	0.55 J	< 1.0 U	< 1.0 U
TMW-30	TMW-30-20180402	4/2/2018	N	1.5	0.49 J	< 1.0 U
TMW-30	TMW-30-201811	11/14/2018	N	< 25.0	< 25.0 U	< 25.0 U
TMW-30	TMW-30-201910	10/23/2019	N	2.5	2.3	0.12 J
TMW-30	TMW-30-202005	5/14/2020	N	< 5.0 U	2.9 J	< 5.0 U
TMW-30	TMW-30-202010	10/7/2020	N	12.7 J	< 20.0 U	< 20.0 U
TMW-30	TMW-30-202104	4/14/2021	N	34.3	76.4	< 10.0 U
TMW-30	TMW-30-202110	10/21/2021	N	8.7 J	3.5 J	< 20.0 U
TMW-30	DUP-11-202110	10/21/2021	FD	7.8 J	2.7 J	< 20.0 U
TMW-30	TMW-30-202204	4/14/2022	N	30.0	6.4	< 1.0 U
TMW-30	TMW-30-202210	10/19/2022	N	7.2 J	< 20.0 U	< 20.0 U
TMW-30	DUP-01-202210	10/19/2022	FD	8.8 J	< 20.0 U	< 20.0 U
TMW-30	TMW-30-202304	4/20/2023	N	30.1	5.6 J	< 20.0 U
TMW-30	TMW-30-202310	10/20/2023	N	15.9	3.4	< 1.0 U
TMW-30	DUP-06-202310	10/20/2023	FD	19.3	3.8	< 1.0 U
TMW-30	TMW-30-202404	4/18/2024	N	12.2	2.2	1.3
TMW-30	TMW-30-202410	10/9/2024	N	2.7	< 1.0 U	< 1.0 U
TMW-30	DUP-11-202410	10/9/2024	FD	3.1	< 1.0 U	0.60 J
TMW-31	TMW-31-20180403	4/3/2018	N	< 5.0 U	< 5.0 U	< 5.0 U
TMW-32	TMW-32-20180403	4/3/2018	N	65.8	3.3	< 1.0 U
TMW-32	TMW-32-201804	4/18/2018	N	101	3.7	< 1.0 U
TMW-32	TMW-32-201807	8/3/2018	N	83.5	3.4	< 1.0 U
TMW-32	TMW-32-201811	11/16/2018	N	16.0	1.9	0.35 J
TMW-32	TMW-32-201904	4/25/2019	N	12.5	36.4	0.13 J
TMW-32	TMW-32-201910	10/24/2019	N	29.2	21.0	0.13 J
TMW-32	TMW-32-202005	5/14/2020	N	31.6	16.1	1.5
TMW-32	TMW-32-202010	10/8/2020	N	27.6	7.3	0.90 J
TMW-32	TMW-32-202104	4/14/2021	N	43.1	9.4	0.91 J
TMW-32	DUP-04-202104	4/14/2021	FD	43.2	9.1	0.79 J
TMW-32	TMW-32-202110	10/20/2021	N	24.9	5.2	0.36 J
TMW-32	TMW-32-202204	4/13/2022	N	22.7	4.4	< 1.0 U
TMW-32	TMW-32-202210	10/20/2022	N	17.0	6.1	0.28 J
TMW-32	TMW-32-202304	4/19/2023	N	16.1	7.3	0.44 J
TMW-32	TMW-32-202310	10/20/2023	N	10.2	5.3	0.38 J
TMW-32	TMW-32-202404	4/16/2024	N	8.1	5.4	0.37 J
TMW-32	TMW-32-202410	10/10/2024	N	2.5 J-	5.7 J	< 1.0 UJ

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Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
TMW-33	TMW-33-20180403	4/3/2018	N	55.8	2.3	0.17 J
TMW-33	TMW-33-SHALLOW-20180405	4/5/2018	N	156	3.0	0.26 J
TMW-34	TMW-34-201811	11/14/2018	N	7.4	1.5	< 1.0 U
TMW-34	TMW-34-201904	4/25/2019	N	10.3	2.2	< 1.0 U
TMW-34	TMW-34-201910	10/24/2019	N	17.6	6.9	< 1.0 U
TMW-34	TMW-34-202005	5/14/2020	N	46.6	18.1	< 1.0 U
TMW-34	TMW-34-202010	10/7/2020	N	84.4	46.0	< 1.0 U
TMW-34	TMW-34-202104	4/15/2021	N	59.9	20.9	< 1.0 U
TMW-34	TMW-34-202110	10/20/2021	N	126	65.5	< 1.0 U
TMW-34	TMW-34-202204	4/13/2022	N	50.9	11.0	< 1.0 U
TMW-34	TMW-34-202210	10/20/2022	N	151	38.7	< 1.0 U
TMW-34	TMW-34-202304	4/19/2023	N	148	27.0	< 1.0 U
TMW-34	TMW-34-202310	10/18/2023	N	147	24.3	< 1.0 U
TMW-34	TMW-34-202404	4/18/2024	N	118	31.0	< 1.0 U
TMW-34	TMW-34-202410	10/10/2024	N	16	150	1.3
TMW-35	TMW-35-201910	10/22/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	DUP-01-202005	5/12/2020	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202010	10/6/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	DUP-06-202110	10/19/2021	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202210	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	DUP-11-202210	10/18/2022	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202310	10/17/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	DUP-11-202310	10/17/2023	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	TMW-35-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-35	DUP-04-202410	10/8/2024	FD	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36	TMW-36-201910	10/24/2019	N	389	8.4	0.31 J
TMW-36	TMW-36-202005	5/13/2020	N	235	7.6	0.30 J
TMW-36	TMW-36-202010	10/5/2020	N	299	8.7	0.40 J
TMW-36	TMW-36-202104	4/13/2021	N	11.3	3.2	< 1.0 U
TMW-36	TMW-36-202110	10/19/2021	N	110	64.3	0.27 J
TMW-36	TMW-36-202204	4/12/2022	N	2.3	9.5	< 1.0 U
TMW-36	TMW-36-202210_3494	10/18/2022	N	86.7	81.5	0.37 J
TMW-36	TMW-36-202304	4/17/2023	N	72.6	65.8	0.25 J
TMW-36	TMW-36-202310	10/16/2023	N	103	60.5	0.31 J
TMW-36	TMW-36-202404	4/15/2024	N	35.9	36.0	0.22 J
TMW-36	TMW-36-202410	10/8/2024	N	75	51	< 1.0 U
TMW-36B	TMW-36B-202007	7/15/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202010	10/5/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202104	4/12/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202110	10/19/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202204	4/12/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202210_3494	10/18/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202304	4/17/2023	N	0.35 J	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202310	10/16/2023	N	< 1.0 U	0.19 J	< 1.0 U
TMW-36B	TMW-36B-202404	4/15/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
TMW-36B	TMW-36B-202410	10/8/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-10	VP-10-GW-20150120	1/20/2015	N	636	18.8	0.61 J
VP-10	VP-10-20150422	4/22/2015	N	395	11.2	0.35 J
VP-10	VP-10-201507	7/30/2015	N	6.1	0.34 J	< 1.0 U
VP-10	VP-10-201510	10/6/2015	N	198	8.8	0.15 J
VP-10	VP-10-201601	1/12/2016	N	823	8.6	0.27 J
VP-10	VP-10-201605	5/3/2016	N	376	13.1	0.30 J
VP-10	VP-10-201611	11/8/2016	N	278	16.0	0.39 J
VP-10	VP-10-201704	5/3/2017	N	198	15.9	0.41 JB
VP-10	VP-10-201710	10/25/2017	N	211	12.7	0.42 J
VP-10	VP-10-201804	4/19/2018	N	357	14.9	0.40 J
VP-10	VP-10-201811	11/15/2018	N	250	14.4	0.55 J
VP-10	VP-10-201904	4/24/2019	N	211	12.6	0.36 J
VP-10	VP-10-201910	10/23/2019	N	3.3 J	11.9	0.52 J
VP-10	VP-10-202005	5/12/2020	N	27.5	1.4	0.24 J
VP-10	VP-10-202010	10/7/2020	N	110	12.5	0.48 J
VP-10	VP-10-202104	4/14/2021	N	169	10.2	0.39 J
VP-10	VP-10-202110	10/21/2021	N	177	12.4	0.33 J
VP-12	VP-12-GW-20150121	1/21/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-20150422	4/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201507	7/30/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201611	11/8/2016	N	0.55 J	< 1.0 U	< 1.0 U
VP-12	VP-12-201704	5/3/2017	N	< 1.0 U	0.25 JB	< 1.0 U
VP-12	VP-12-201710	10/25/2017	N	0.22 J	< 1.0 U	< 1.0 U
VP-12	VP-12-201804	4/19/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201811	11/15/2018	N	< 1.0 U	< 1.0 U	< 1.0 U

HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
VP-12	VP-12-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202005	5/13/2020	N	0.62 J	< 1.0 U	< 1.0 U
VP-12	VP-12-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202104	4/14/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202110	10/20/2021	N	0.31 J	< 1.0 U	< 1.0 U
VP-12	VP-12-202204	4/14/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202210	10/20/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202304	4/20/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202310	10/19/2023	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202404	4/17/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-12	VP-12-202410	10/9/2024	N	12	< 1.0 U	< 1.0 U
VP-14	VP-14-201507	7/30/2015	N	55.6	2.1	< 1.0 U
VP-14	VP-14-201510	10/7/2015	N	59.3	2.3	< 1.0 U
VP-14	VP-14-201601	1/13/2016	N	65.6	2.3	< 1.0 U
VP-14	VP-14-201605	5/4/2016	N	54.5	2.4	< 1.0 U
VP-14	VP-14-201704	5/3/2017	N	62.9	3.7 B	0.18 JB
VP-14	VP-14-201710	10/25/2017	N	69.0	3.3	< 1.0 U
VP-14	VP-14-201804	4/19/2018	N	55.8	2.6	< 1.0 U
VP-14	VP-14-201811	11/15/2018	N	64.1	2.6	< 1.0 U
VP-14	VP-14-201904	4/24/2019	N	53.6	2.1	< 1.0 U
VP-14	VP-14-201910	10/23/2019	N	87.9	3.9	< 1.0 U
VP-14	VP-14-202005	5/12/2020	N	42.9	2.1	< 1.0 U
VP-14	VP-14-202010	10/8/2020	N	38.3	1.9	< 1.0 U
VP-14	VP-14-202104	4/14/2021	N	26.1	1.5	< 1.0 U
VP-14	VP-14-202110	10/21/2021	N	25.6	1.1	< 1.0 U
VP-14	VP-14-202204	4/14/2022	N	40.3	2.0	< 1.0 U
VP-14	VP-14-202304	4/20/2023	N	23.1	1.6	< 1.0 U
VP-14	VP-14-202310	10/19/2023	N	21.7	1.1	< 1.0 U
VP-14	VP-14-202404	4/19/2024	N	22.4	1.1	< 1.0 U
VP-14	VP-14-202410	10/9/2024	N	1.9	< 1.0 U	< 1.0 U
VP-15	VP-15-GW-20150701	7/1/2015	N	< 1.0 U	0.18 J	0.24 J
VP-15	VP-15-201510	10/7/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-15	VP-15-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-15	VP-15-201605	5/2/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-1S	VP-1-SHALLOW-20140916	9/16/2014	N	< 5.0 U	< 5.0 U	< 2.0 U
VP-1S	VP-1-SHALLOW-201410	10/15/2014	N	8.3	1.4 J	< 2.0 U
VP-2D	SV-2-DEEP-201407	7/29/2014	N	56.1	8.2	< 2.0 U
VP-2D	VP-2-DEEP-20140916	9/16/2014	N	48.0	6.5	< 2.0 U
VP-2D	VP-2-DEEP-20140916-DUP	9/16/2014	FD	49.4	6.8	< 2.0 U
VP-2D	VP-2-DEEP-201410	10/15/2014	N	46.3	6.3	< 2.0 U
VP-2S	SV-2-SHALLOW-201407	7/29/2014	N	33.8	5.7	< 2.0 U
VP-2S	VP-2-SHALLOW-20140916	9/16/2014	N	36.4	5.6	< 2.0 U
VP-2S	VP-2-SHALLOW-201410	10/15/2014	N	51.2	5.2	< 2.0 U
VP-5	VP-05-20150422	4/22/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-5	VP-05-201507	7/30/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-5	VP-05-201510	10/6/2015	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-5	VP-05-201601	1/12/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-5	VP-05-201605	5/4/2016	N	0.66 J	< 1.0 U	< 1.0 U
VP-5	VP-05-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-6	VP-06-GW-20150120	1/20/2015	N	4.3	< 1.0 U	< 1.0 U
VP-6	VP-06-20150422	4/22/2015	N	2.3	0.30 J	< 1.0 U
VP-6	VP-06-201507	7/30/2015	N	0.76 J	0.20 J	< 1.0 U
VP-6	VP-06-201510	10/6/2015	N	0.75 J	< 1.0 U	< 1.0 U
VP-6	VP-06-201601	1/12/2016	N	1.3	0.20 J	< 1.0 U
VP-6	VP-06-201605	5/4/2016	N	0.78 J	0.17 J	< 1.0 U
VP-6	VP-06-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-201601	1/11/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-201605	5/3/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-201611	11/8/2016	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-201704	5/3/2017	N	< 1.0 U	0.33 JB	< 1.0 U
VP-7	VP-07-201710	10/25/2017	N	0.71 J	< 1.0 U	< 1.0 U
VP-7	VP-7-201804	4/19/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-201811	11/15/2018	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-201904	4/24/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-201910	10/23/2019	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-202005	5/12/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-202104	4/14/2021	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-7-202204	4/14/2022	N	0.27 J	< 1.0 U	< 1.0 U
VP-7	VP-7-202210	10/20/2022	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-202304	4/20/2023	N	0.23 J	< 1.0 U	< 1.0 U
VP-7	VP-07-202404	4/19/2024	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-7	VP-07-202410	10/9/2024	N	6.2	< 1.0 U	< 1.0 U
VP-8	VP-08-20150422	4/22/2015	N	1.2	< 1.0 U	< 1.0 U
VP-8	VP-08-201507	7/30/2015	N	2.2	< 1.0 U	< 1.0 U

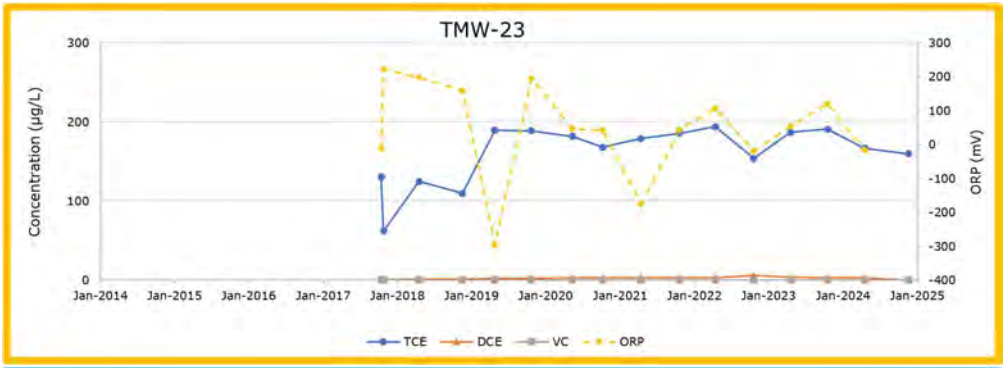
HISTORICAL SUMMARY OF MONITORING WELL GROUNDWATER CONCENTRATIONS FOR TCE AND DAUGHTER-PRODUCTS
Whirlpool Facility - Fort Smith, Arkansas

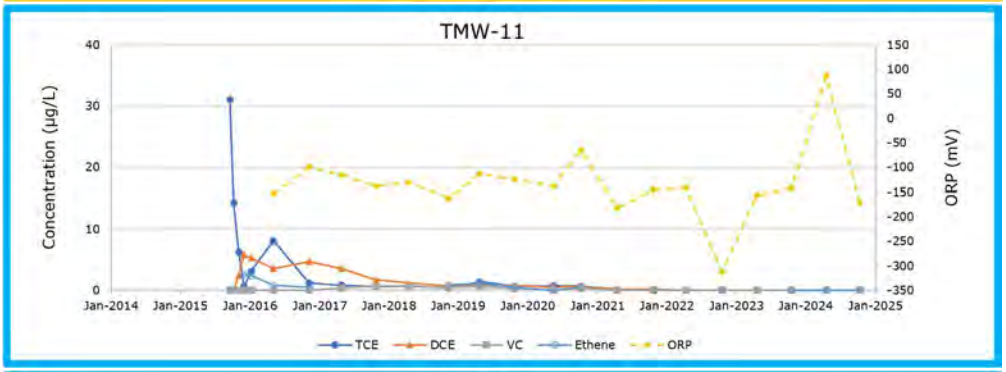
Location	Sample ID	Date	Sample Type	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
VP-8	VP-08-201510	10/7/2015	N	2.5 B	< 1.0 U	< 1.0 U
VP-8	VP-08-201601	1/11/2016	N	3.2	< 1.0 U	< 1.0 U
VP-8	VP-08-201605	5/3/2016	N	3.8	< 1.0 U	0.15 J
VP-8	VP-08-201611	11/8/2016	N	2.4	< 1.0 U	< 1.0 U
VP-8	VP-08-201704	5/3/2017	N	2.5	0.35 JB	0.20 JB
VP-8	VP-08-201710	10/25/2017	N	2.9	< 1.0 U	0.18 J
VP-8	VP-8-201804	4/19/2018	N	3.4	< 1.0 U	0.17 J
VP-8	VP-8-201811	11/15/2018	N	4.5	< 1.0 U	0.17 J
VP-8	VP-8-201904	4/24/2019	N	4.8	< 1.0 U	0.18 J
VP-8	VP-8-201910	10/23/2019	N	5.8	0.23 J	0.26 J
VP-8	VP-8-202005	5/12/2020	N	4.4	0.19 J	0.14 J
VP-8	VP-08-202010	10/7/2020	N	< 1.0 U	< 1.0 U	< 1.0 U
VP-8	VP-8-202104	4/14/2021	N	5.8	0.18 J	< 1.0 U
VP-8	VP-8-202110	10/21/2021	N	4.2	0.13 J	< 1.0 U
VP-8	VP-8-202204	4/14/2022	N	5.3	0.22 J	< 1.0 U
VP-8	VP-8-202210	10/20/2022	N	5.6	0.15 J	< 1.0 U
VP-8	VP-08-202304	4/20/2023	N	6.8	0.22 J	< 1.0 U
VP-8	VP-8-202310	10/19/2023	N	5.5	0.25 J	< 1.0 U
VP-8	VP-08-202404	4/19/2024	N	5.8	0.22 J	< 1.0 U
VP-8	VP-08-202410	10/9/2024	N	11	0.76 J	< 1.0 U
VP-9	VP-09-201507	7/30/2015	N	2.4	< 1.0 U	< 1.0 U
WEST-SW	WEST-SW-20140818	8/18/2014	N	< 5.0 U	< 5.0 U	< 2.0 U

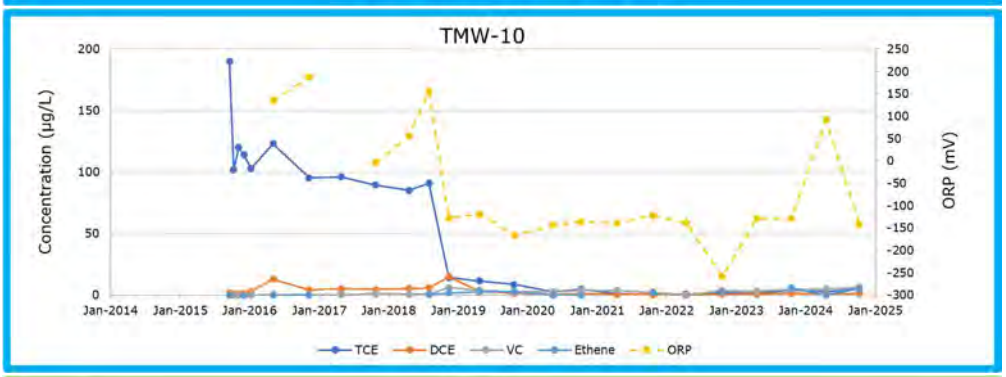
Appendix E

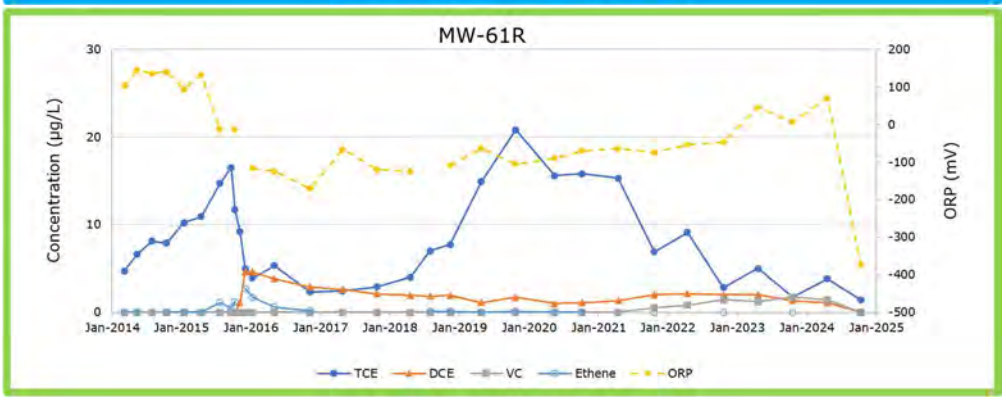
ISCR Data Graphs

North Plume – 61R-PH II Array



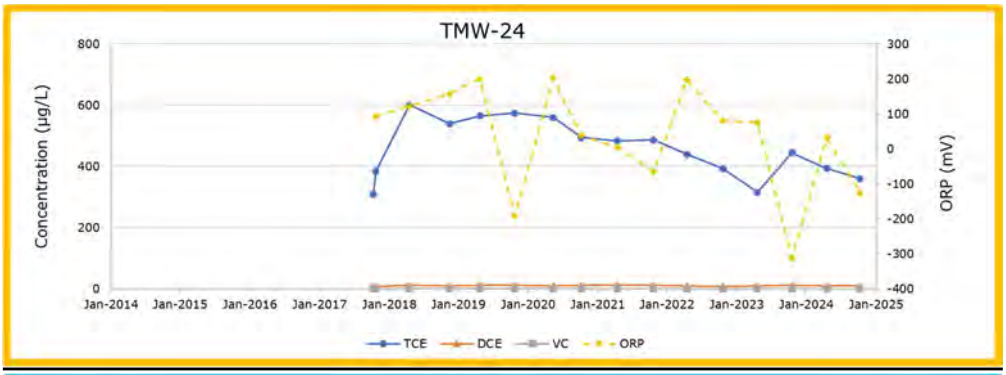


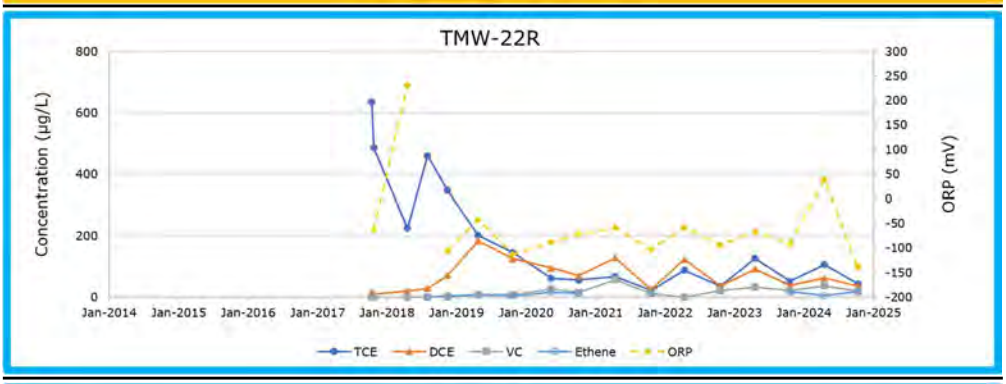


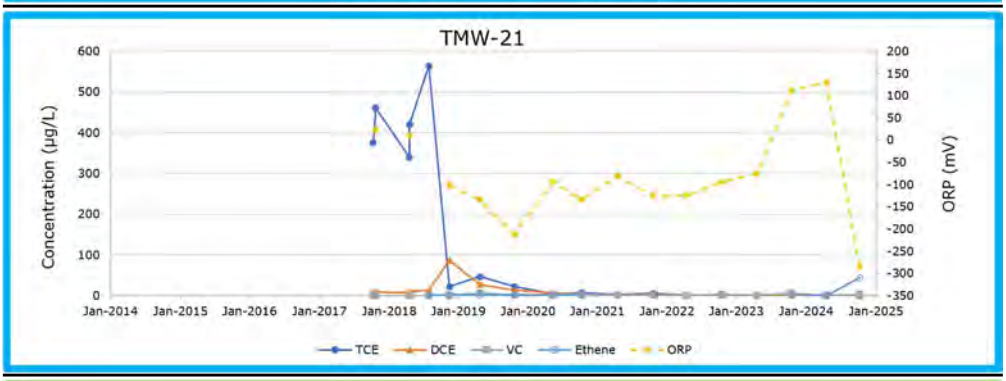


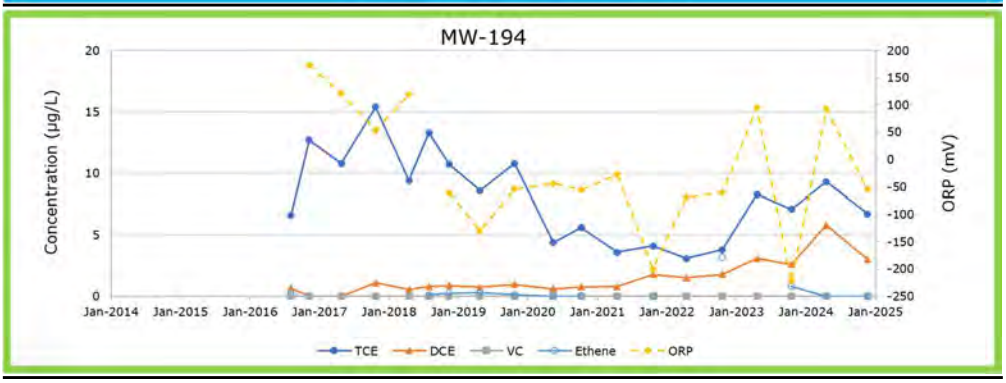
Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

North Plume – N1 and N3 Array



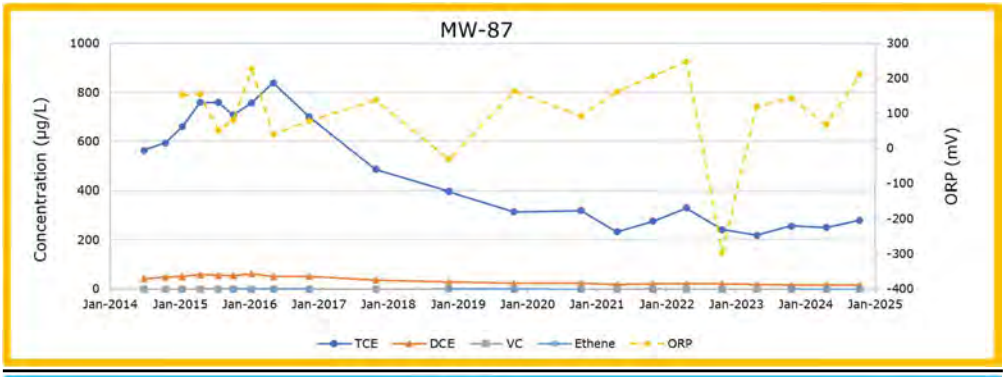


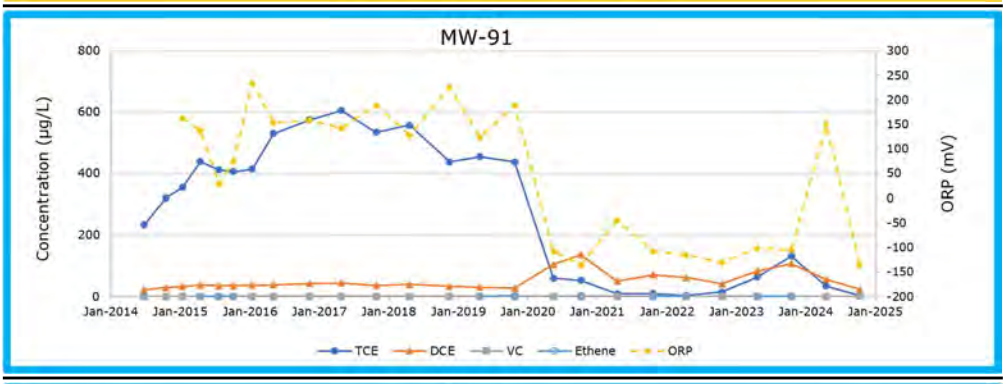


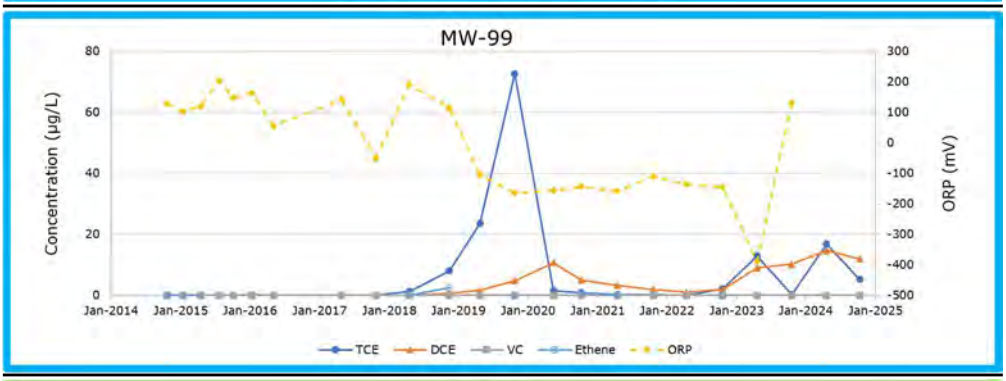


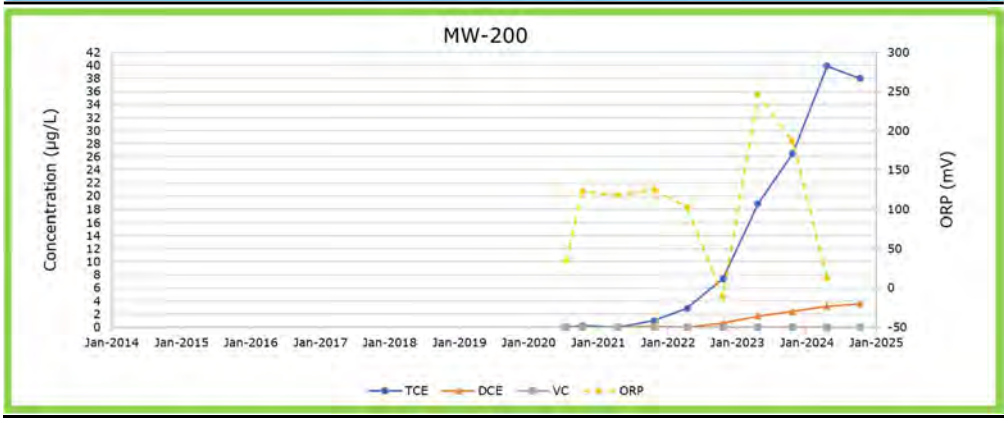
Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

East Plume



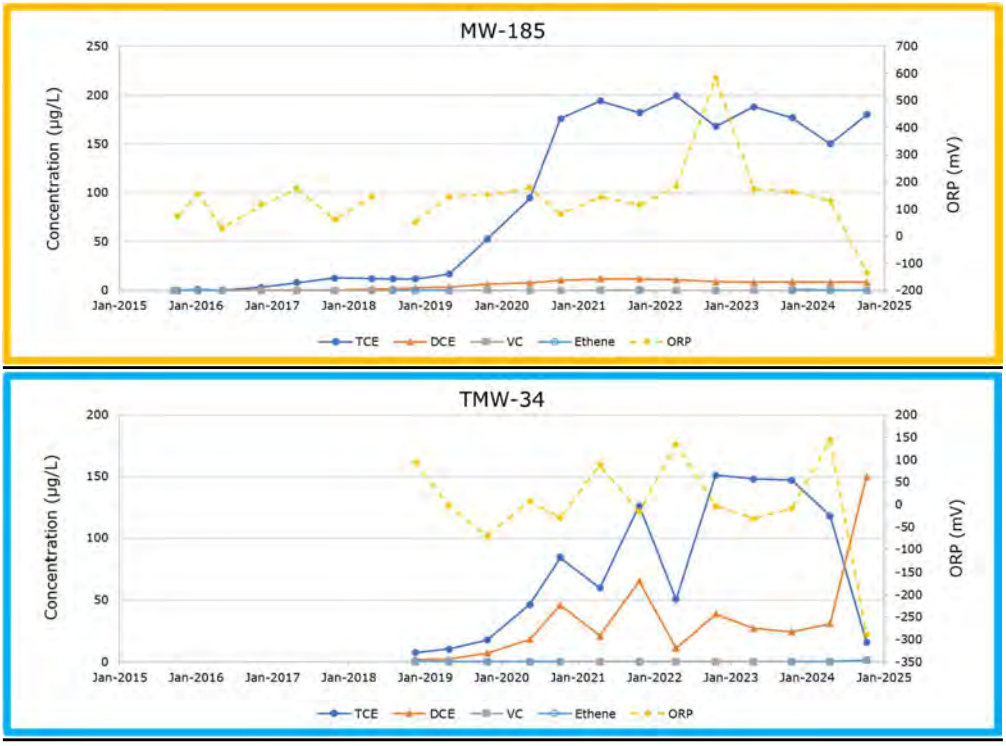






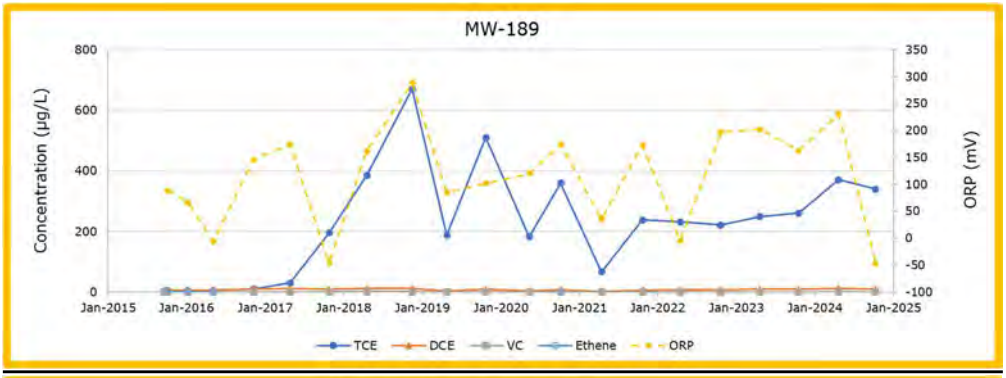
Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

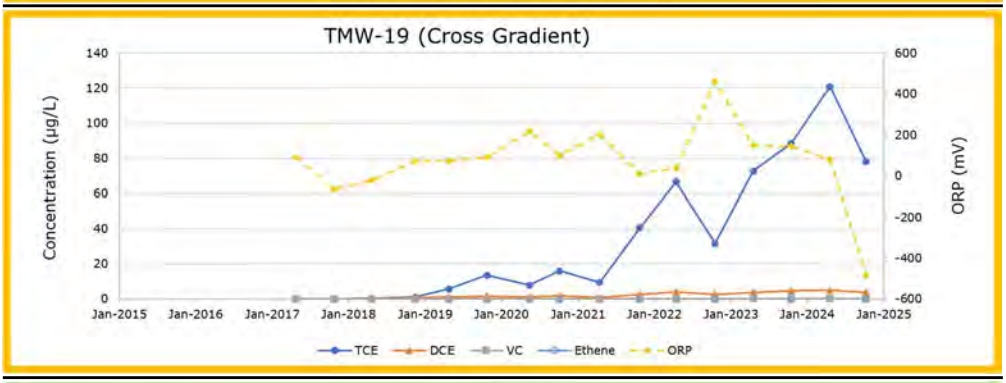
East Plume

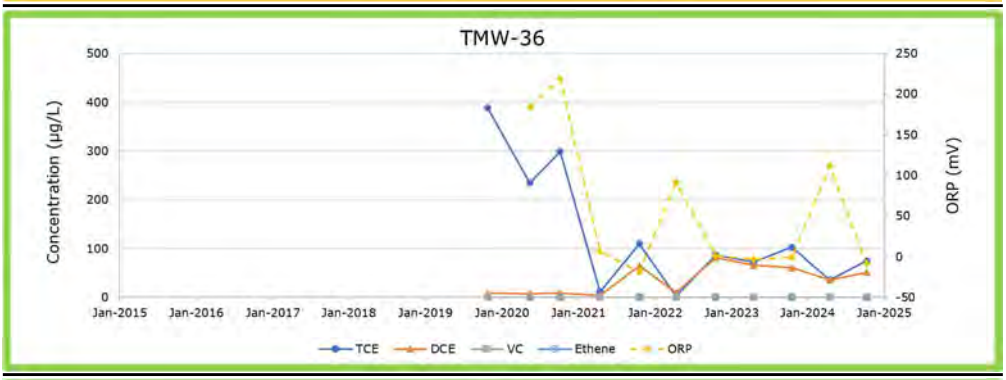


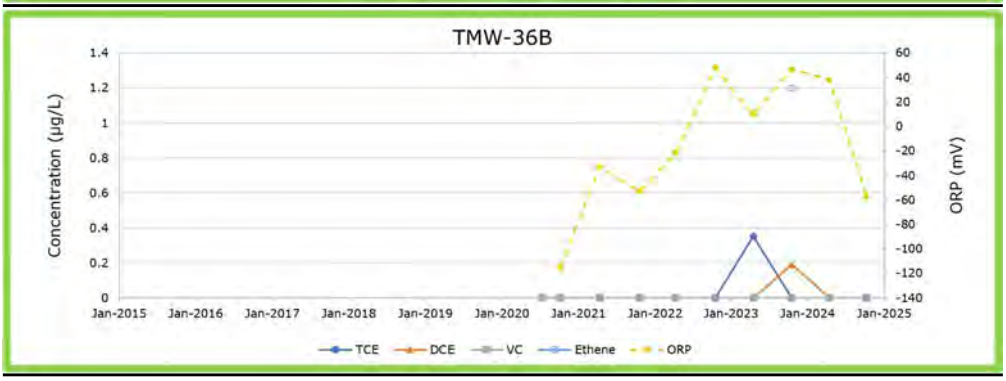
Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

South Plume



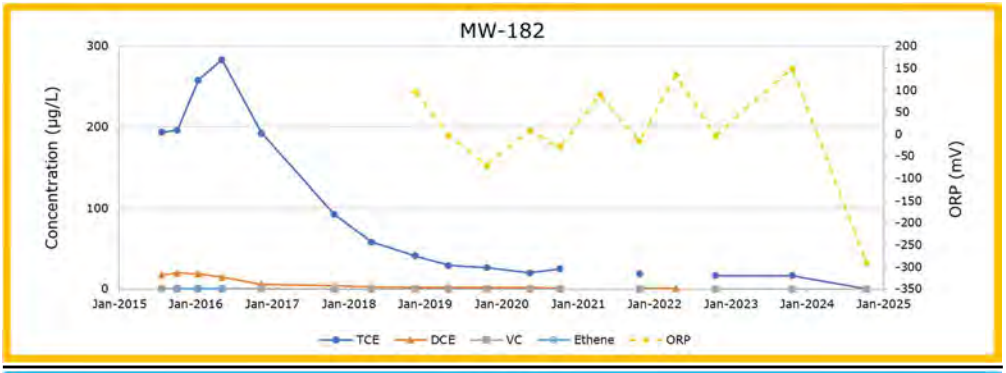


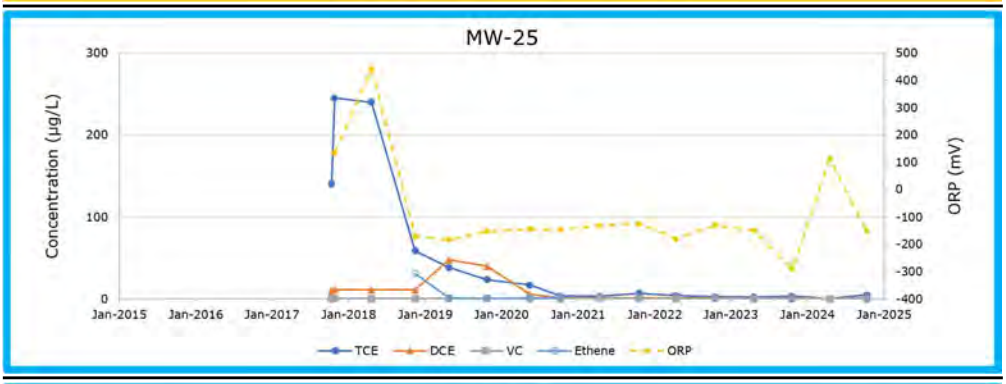


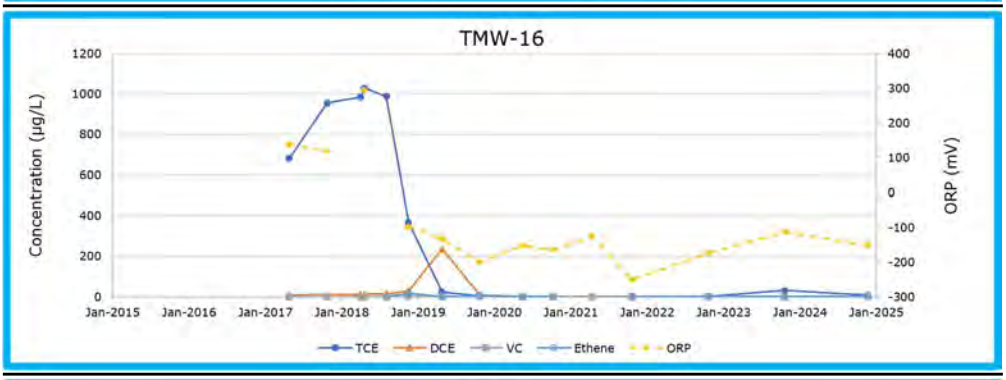


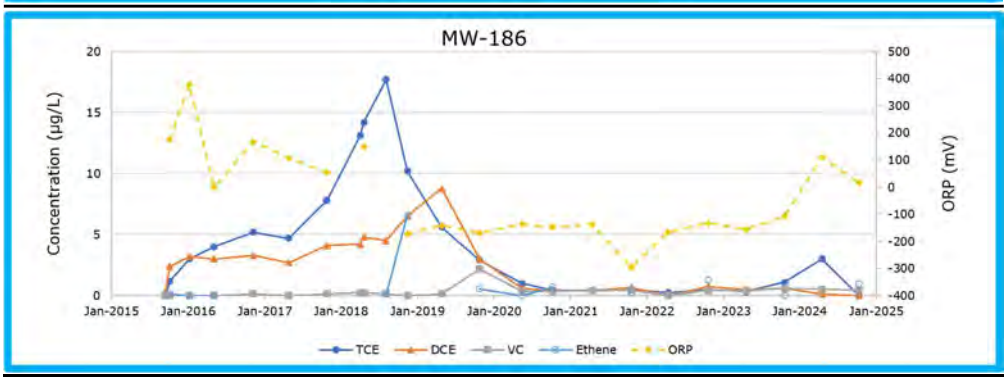
Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

South Plume









Orange – Upgradient, Blue – Plume Treatment Area, Green - Downgradient

Appendix F

Air Sampling Field Notes and Weather Data for October 2023

0700 ONSITE : H: 80° L: 52°
0720 H&S / Air prep → Mob to Stryten
0738 Z6-2-IA-202410 SET
CAN ID: 6L2561
F.C: 28015
start: 0738 init: -26
Stop: 1540 final: -5
0738 DUP-IA-202410 SET
CAN ID: 6L1523
F.C: 27078
start: 0738 init: -27
Stop: 1527 final: -5
0747 Z5-2-IA-202410 SET
CAN ID: 6L4010
F.C: 26207
start: 0747 init: -27
Stop: 1500 final: -5
Z5-OF-IA-202410 SET
CANID: 6L3125
FC: 26014
Start: 0759 init: -27
Stop: 1537 final: -5

CEP

Z6-1-IA-202410 SET
CAN: 6L2250
FC: 27266
Start: 0805 init: -30
Stop 1608 final: -5
Z5-1-IA-202410 SET
CAN ID: 6L3289
FC: 27961
Start: 0811 init: -26
Stop: 1605 final: -5
Z3-1-IA-202410 SET
CAN ID: 6L1903
FC: 27247
Start: 0837 init: -30
Stop: 1650 final: -5
Z4-1-IA-202410 SET
CAN ID: 6L1113
F.C: 26752
Start: 0843 init: -30
Stop: 1653 final:
AA-1-202410 SET
CAN ID: 6L4046
FC: 25684
Start: 0851 init: -28
Stop: 1722 final: -5

gauge @ -4 before opening

Rate in the Rain

10/8/24

Z3-2-IA-202410 SET
CAN ID: 6L3919
F.C: 25672
Start: 0944 Init: -29
Stop: 1729 final: -7.5

Z4-2-IA-202410 SET
CAN ID: 6L1990
FC: 27367
Start: 0949 Init: -30
Stop: 1732 final: -5

Z2-1-IA-202410 SET
CAW ID: 6L1457
FC: 27748
Start: 0954 Init: -29
Stop: 1734 final: -6

gauge @ -1 before opening

Z1-1-IA-202410 SET

[moved into entrance area due to air blasting activities in building area

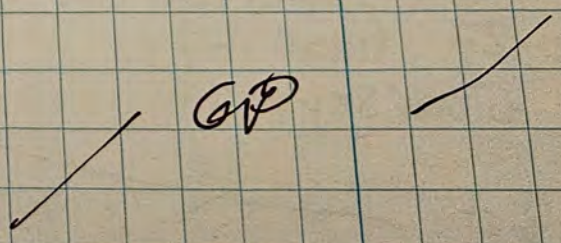
CAW ID: 6L2795
FC: 22568
Start: 1003 Initi -30
Stop: 1737 final: -7

001 Mob to help Patrick → S.A.
030 Mob to recheck summas
140 Mob to MW-184
45 Begin cal

whirlpool Annual GW 10/8/24

YSI SN:
1. SpCON: 1000 LeMotte turidimtr.
2. ORP: 240.0
3. pH 7.02 4.00 10.03
4. DO 98.5%

1227 Begin purging @ MW-184
1312 MW-184-202410 collected
1315 Dup-02-202410 collected
1340 Mob to help team + recheck air cans
1400 Mob to deliver supplies/bottles to Collin/Patrick/Parker
1437 Help Patrick @ MW-27
1520 Mob to check summas @ MP (Josh check + collect @ Stryten)
1623 Recheck and pack air summa cans for shipment.
1701 Pick up MARS + QUALSERV cans + pack
1731 Mob to Fedex → offsite



Rite in the Rain

SUB-SLAB AIR

0701 ONSITE. HRS, prep, cal/bottle help

0718 Mob to Stryten to begin S.S.A.

76-2-202410

	1L	2L
CH_4	0.0	0.0
CO_2	0.6	0.6
O_2	20.2	20.2
Bal	79.2	79.2
He	0	0

init. pres: -30
final pres: -5
CAN ID: 1L1713
FC: 23196
start: ~~0800~~ 0822
stop: 0848

75-2-202410

	1L	2L
CH_4	0.0	0.0
CO_2	1.9	1.9
O_2	19.5	19.2
Bal	78.6	78.9
He	0	0

init pres: -30
final pres: -5
can ID: 1L4305
FC: 24748
start: 0908 stop: 0928

0937 Mob to staging area → AA-2

AA-2-202410 SET

CAN ID: 6L0868
FC: 26141
Start: 0949 Stop: 1700
init: -27 final: -7

0955 Mob to Qualserv

GP

73-1-202410

	1L	2L
CH_4	0	0.0
CO_2	16.2	16.2
O_2	0.1	0.0
Bal	83.7	83.8
He	0	0

init pres: -27
final pres: -5
CAN ID: 1L3934
FC: 25212
start: 1022
stop: 1041

74-1-202410

	1L	2L
CH_4	0.0	0.0
CO_2	1.4	1.4
O_2	19.3	19.1
Bal	79.3	79.5
He	0	0

init pres: -30
final pres: -5
CAN ID: 1L4762
FC: 23154
start: 1101
stop: 1125

75-OF-202410

	1L	2L
CH_4	0.0	0.0
CO_2	0.0	0.0
O_2	20.7	20.7
Bal	79.2	79.3
He	0	0

init pres: -29
final pres: -4.5 (-5)
CAN ID: 1L2030
FC: 23185
start: 1153
stop: 1215

CP 46

10/9/24

Z6-1-202410

	1L	2L
CH_4	0.0	0.0
CO_2	3.2	3.1
O_2	16.8	16.9
Bal	80.0	80.0
He	0	0

init press: -27
final pres: -4
CAN ID: 1L2281
Fc: 27037
start: 1230 stop: 1246

Z5-1-202410

	1L	2L
CH4	0.0	0.0
CO2	1.3	1.3
O2	18.8	18.8
Bal	79.9	80.0
He	0	0

init pres: -29
final pres: -5
CAN ID: 1L4065
Fc: 23608
start: 1302
stop: 1326

Z3-2-202410

	1L	2L
CH4	0.0	0.0
CO2	1.0	0.9
O2	19.3	19.2
Bal	79.7	79.8
He	0	0

init pres: -29
final pres: -5
CAN ID: 1L1540
Fc: 23937
start: 1423
Stop: 1446

Z4-2-202410

	1L	2L
CH4	0.0	0.0
CO2	4.9	4.9
O2	15.3	15.3
	79.8	79.8

init pres: -30
final pres: -5
CAN ID: 1L4536
Fc: 24024
start: 1503 stop: 1525

Whirlpool Annual Air

10/9/24 47

Z2-1-202410

	1L	2L
CH4	0.0	0.0
CO2	3.3	3.3
O2	17.4	17.5
Bal	79.4	79.5
He	0	0

init pres: -27
final pres: -5
CAN ID: 1L1869
Fc: 24204
start: 1538
stop: 1600

1615 Mob to check AA-2
1630 Mob to help team
- pack COC/boxes/help pack coolers
- recheck COC for GW
1645 Check AA-2 and pack air boxes
1700 collected

AA-2-202410

1727 To fedex w/ Air & microbial insights cooler.
offsite.
1749 Return to pick up vehicle
1750 Offsite

CP

35.35 °N, 94.35 °W

Fort Smith, AR Weather History

32° FORT SMITH REGIONAL AIRPORT STATION (/DASHBOARD/PWS/KARFORTS21?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/AR/FORT-SMITH/KFSM)

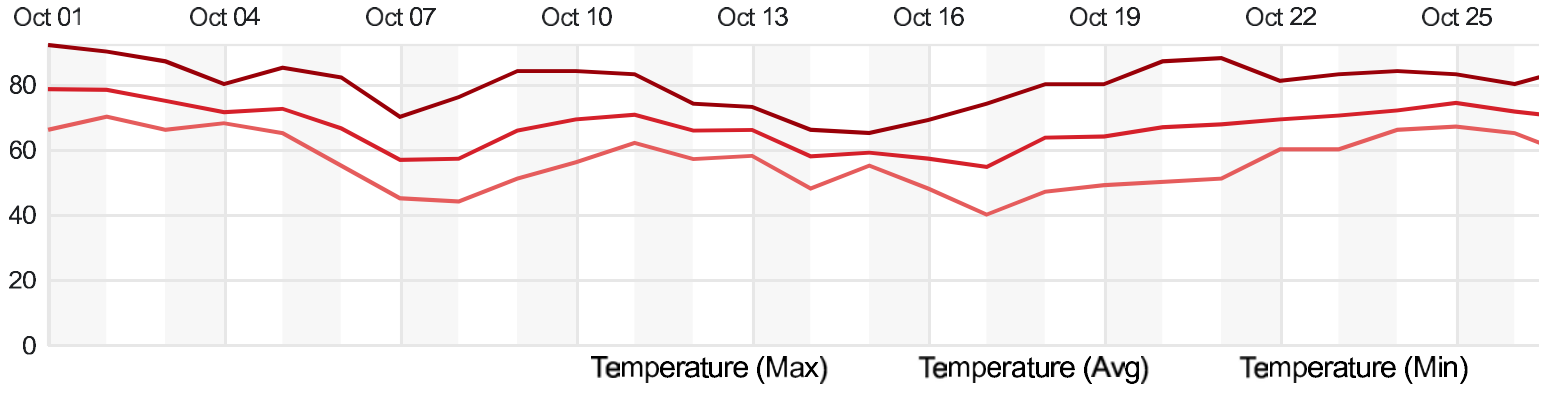
- TODAY (/WEATHER/US/AR/FORT-SMITH/KFSM)
- HOURLY (/HOURLY/US/AR/FORT-SMITH/KFSM)
- 10-DAY (/FORECAST/US/AR/FORT-SMITH/KFSM)
- CALENDAR (/CALENDAR/US/AR/FORT-SMITH/KFSM)
- HISTORY (/HISTORY/DAILY/US/AR/FORT-SMITH/KFSM)
- WUNDERMAP (/WUNDERMAP?LAT=35.35&LON=-94.352)

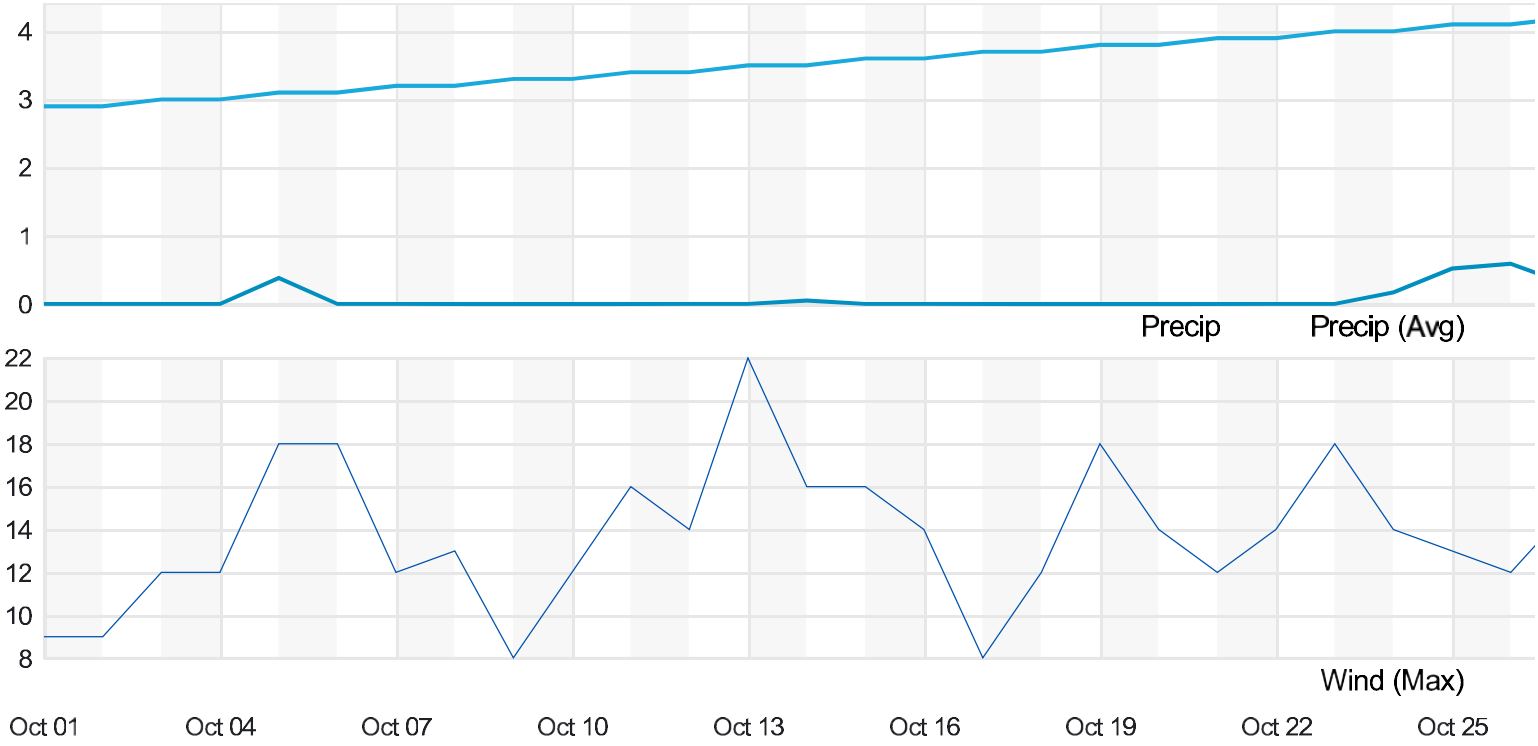
Daily (/history/daily/us/ar/fort-smith/KFSM/date/2023-10-9)

Weekly (/history/weekly/us/ar/fort-smith/KFSM/date/2023-10-9)

Monthly (/history/monthly/us/ar/fort-smith/KFSM/date/2023-10-9)

October | 2023 | View





Summary

Temperature (°F)	Max	Average	Min
Max Temperature	92	76.61	48
Avg Temperature	78.46	63.76	19.4
Min Temperature	70	53.42	0

Dew Point (°F)	Max	Average	Min
Dew Point	71	51.53	0

Precipitation (in)	Max	Average	Min	Sum
Precipitation	3.14	0.19	0.00	5.85
Snowdepth	0.00	0.00	0.00	0.00

Wind (mph)	Max	Average	Min
Wind	22	6.28	0
Gust Wind	37	2.23	0

Sea Level Pressure (in)	Max	Average	Min
Sea Level Pressure	29.99	29.53	29.14

Daily Observations

Time	Temperature (°F)			Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressu	
Oct	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Av
1	92	78.5	66	67	63.3	59	90	62.5	34	9	4.0	0	29.7	29
2	90	78.3	70	66	61.7	57	81	59.2	33	9	4.2	0	29.7	29
3	87	74.9	66	63	60.1	57	84	62.7	36	12	5.9	0	29.6	29
4	80	71.4	68	70	65.3	60	93	81.5	69	12	6.0	0	29.5	29
5	85	72.4	65	66	63.1	57	93	74.5	40	18	7.0	0	29.6	29
6	82	66.5	55	58	50.3	38	90	61.5	22	18	6.6	0	29.8	29
7	70	56.8	45	43	38.9	36	80	53.9	30	12	5.8	0	29.9	29
8	76	57.1	44	48	44.3	41	97	68.2	29	13	3.0	0	29.7	29
9	84	65.8	51	56	51.5	47	93	64.1	33	8	2.9	0	29.4	29
10	84	69.2	56	61	54.5	50	87	62.5	38	12	5.7	0	29.4	29
11	83	70.6	62	62	56.9	50	93	65.3	37	16	6.3	0	29.3	29
12	74	65.8	57	58	56.3	52	89	72.1	57	14	10.4	5	29.3	29
13	73	65.9	58	65	55.7	44	94	72.2	37	22	9.4	0	29.5	29
14	66	57.9	48	47	43.8	40	74	59.8	50	16	10.3	7	29.6	29
15	65	59.0	55	49	45.8	41	77	62.3	50	16	11.7	6	29.7	29
16	69	57.2	48	42	40.3	38	77	55.7	35	14	7.7	0	29.8	29
17	74	54.6	40	46	41.4	37	89	66.2	30	8	2.1	0	29.7	29
18	80	63.6	47	53	47.5	44	90	60.1	31	12	4.9	0	29.5	29
19	80	63.9	49	53	49.6	45	97	64.8	29	18	6.3	0	29.5	29
20	87	66.8	50	51	47.2	42	86	55.6	21	14	4.1	0	29.4	29
21	88	67.7	51	57	50.9	47	86	59.9	25	12	3.5	0	29.4	29
22	81	69.2	60	57	49.8	43	87	54.1	29	14	6.1	0	29.5	29
23	83	70.4	60	68	58.0	45	90	66.7	44	18	5.8	0	29.5	29

Time	Temperature (°F)			Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressu	
24	84	71.9	66	66	61.1	50	93	72.2	32	14	4.8	0	29.6	29
25	83	74.3	67	66	63.9	61	93	71.9	47	13	7.4	3	29.6	29
26	80	71.6	65	69	66.0	63	100	83.5	60	12	5.6	0	29.5	29
27	85	69.6	58	71	65.0	54	97	85.9	61	15	7.3	0	29.7	29
28	60	56.2	53	58	54.5	52	100	94.2	87	15	5.7	0	29.6	29
29	52	48.1	41	52	45.8	38	100	91.6	80	15	10.1	6	29.8	29
30	50	42.2	35	37	28.8	25	86	61.0	39	17	10.7	3	29.9	29
31	48	19.4	0	33	16.3	0	96	45.3	0	9	3.4	0	30.0	29

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Fidelity vs. Vanguard vs. Schwab
SmartAsset

(https://articles.smartasset.com/vanguard-vs-fidelity-vs-schwab/)

35.35 °N, **94.35** °W

Fort Smith, AR Weather History

64° FORT SMITH REGIONAL AIRPORT STATION (/DASHBOARD/PWS/KARFORTS21?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/AR/FORT-SMITH/KFSM)

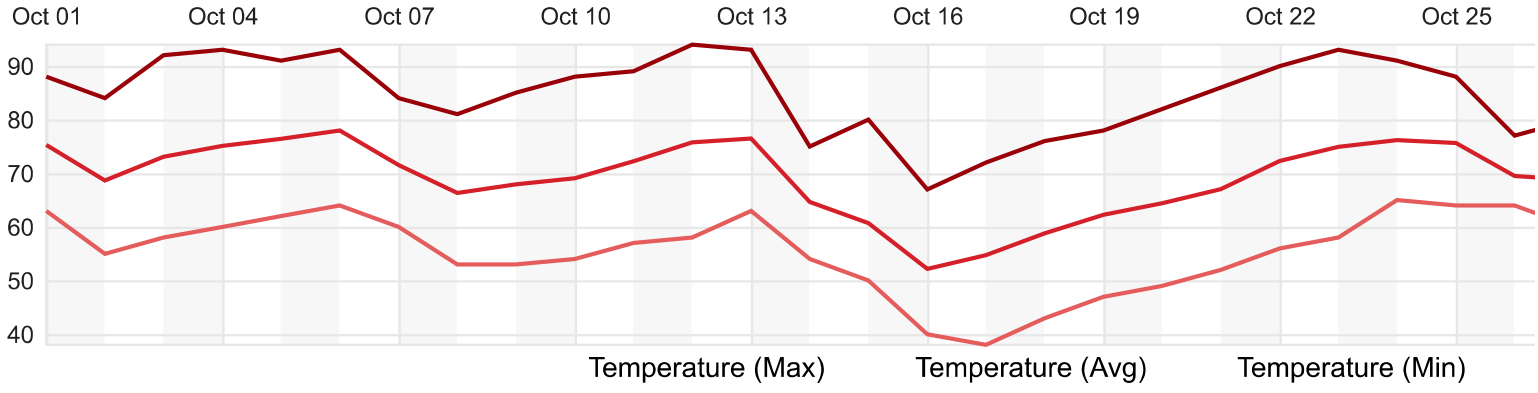
- TODAY (/WEATHER/US/AR/FORT-SMITH/KFSM)
- HOURLY (/HOURLY/US/AR/FORT-SMITH/KFSM)
- 10-DAY (/FORECAST/US/AR/FORT-SMITH/KFSM)
- CALENDAR (/CALENDAR/US/AR/FORT-SMITH/KFSM)
- HISTORY (/HISTORY/DAILY/US/AR/FORT-SMITH/KFSM)
- WUNDERMAP (/WUNDERMAP?LAT=35.353&LON=-94.351)

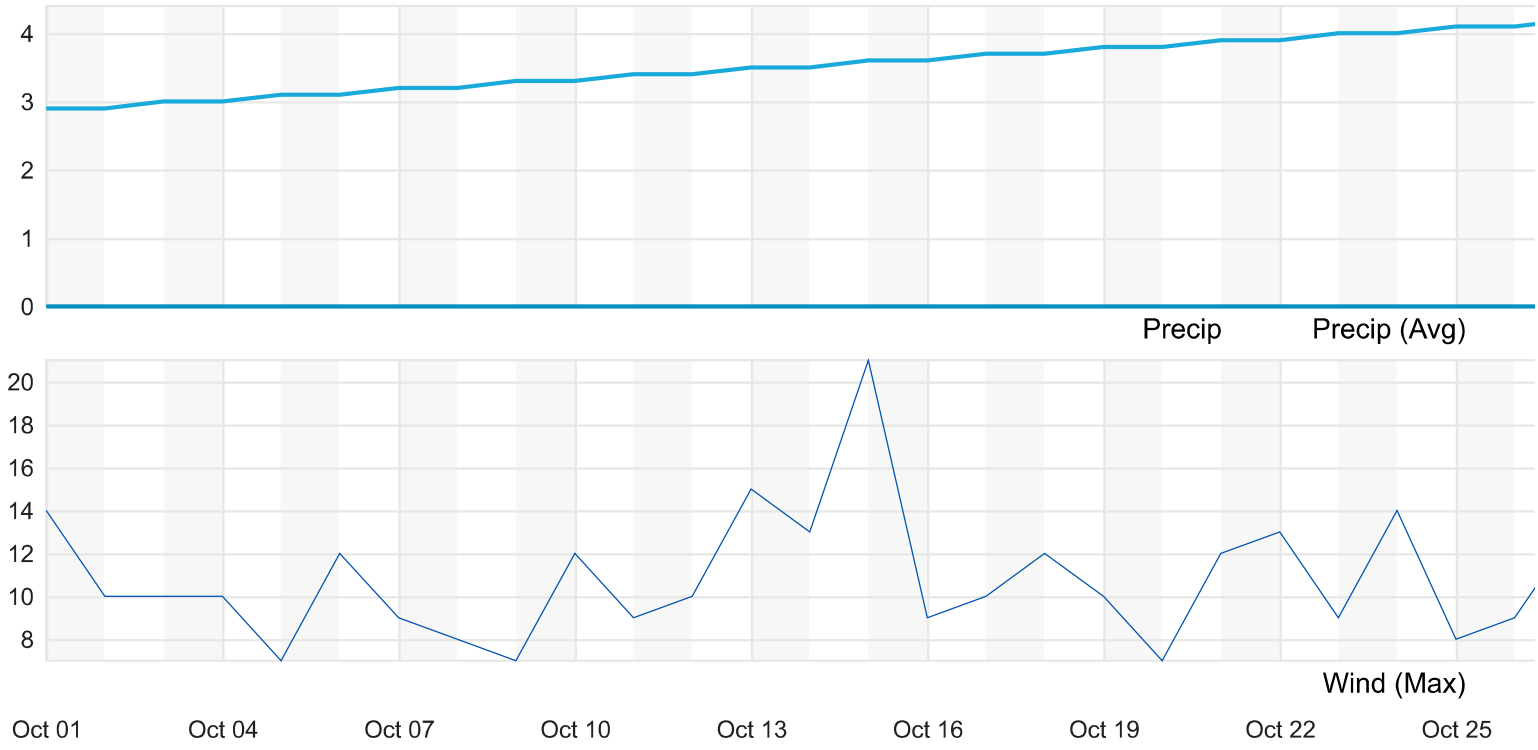
Daily (/history/daily/us/ar/fort-smith/KFSM/date/2024-10-5)

Weekly (/history/weekly/us/ar/fort-smith/KFSM/date/2024-10-5)

Monthly (/history/monthly/us/ar/fort-smith/KFSM/date/2024-10-5)

October | 2024 | View





Summary

Temperature (°F)	Max	Average	Min
Max Temperature	94	84.84	67
Avg Temperature	81.56	70	52.17
Min Temperature	72	56.9	38

Dew Point (°F)	Max	Average	Min
Dew Point	69	49.97	28

Precipitation (in)	Max	Average	Min	Sum
Precipitation	1.25	0.04	0.00	1.25
Snowdepth	0.00	0.00	0.00	0.00

Wind (mph)	Max	Average	Min
Wind	21	5.36	0
Gust Wind	37	1.7	0

Sea Level Pressure (in)	Max	Average	Min
Sea Level Pressure	30.02	29.62	29.36

Daily Observations

Time	Temperature (°F)			Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressu	
Oct	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Av
1	88	75.3	63	65	56.9	40	97	58.0	28	14	5.5	0	29.6	29
2	84	68.7	55	54	48.3	45	77	51.9	25	10	2.7	0	29.6	29
3	92	73.1	58	59	52.7	49	75	51.6	29	10	3.9	0	29.6	29
4	93	75.1	60	57	54.1	52	83	52.2	26	10	3.7	0	29.7	29
5	91	76.4	62	62	60.0	57	90	59.5	34	7	3.6	0	29.6	29
6	93	78.0	64	65	60.7	45	90	59.3	33	12	5.2	0	29.6	29
7	84	71.5	60	50	44.8	39	64	40.6	20	9	3.8	0	29.7	29
8	81	66.3	53	51	45.8	41	77	52.0	24	8	3.2	0	29.6	29
9	85	67.9	53	53	47.9	43	83	53.6	24	7	4.0	0	29.6	29
10	88	69.1	54	52	47.3	40	83	51.6	19	12	5.9	3	29.7	29
11	89	72.3	57	54	50.5	48	78	50.3	25	9	3.8	0	29.7	29
12	94	75.8	58	61	56.0	52	84	54.3	28	10	4.7	0	29.6	29
13	93	76.5	63	63	52.2	35	90	50.2	16	15	7.4	0	29.7	29
14	75	64.7	54	41	33.5	29	59	33.0	18	13	4.8	0	29.8	29
15	80	60.7	50	44	37.6	29	74	46.8	17	21	8.0	0	29.9	29
16	67	52.2	40	37	31.6	28	79	49.6	23	9	2.4	0	30.0	29
17	72	54.8	38	39	33.0	28	89	50.5	20	10	4.8	0	29.9	29
18	76	58.8	43	40	36.0	31	80	48.0	19	12	6.1	0	29.9	29
19	78	62.3	47	45	40.7	36	83	49.8	22	10	4.8	0	29.9	29
20	82	64.4	49	49	43.9	39	86	52.0	22	7	3.7	0	29.9	29
21	86	67.0	52	48	43.1	37	77	47.1	18	12	5.3	0	29.8	29
22	90	72.3	56	60	52.3	43	69	51.4	34	13	6.0	0	29.6	29
23	93	75.0	58	63	57.5	52	87	58.1	27	9	2.1	0	29.6	29

Time	Temperature (°F)			Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressu	
24	91	76.2	65	63	58.0	56	73	55.1	33	14	6.2	0	29.6	29
25	88	75.6	64	62	59.0	56	75	58.0	39	8	5.2	0	29.7	29
26	77	69.5	64	59	56.4	55	78	63.5	52	9	6.2	3	29.8	29
27	80	68.8	60	56	51.5	47	72	55.0	42	13	8.6	5	29.8	29
28	90	81.6	72	60	57.2	55	57	44.3	33	18	8.0	0	29.5	29
29	86	77.5	71	64	59.7	56	71	54.9	37	15	8.4	3	29.6	29
30	85	78.3	70	67	63.4	57	76	60.5	49	16	10.6	5	29.6	29
31	79	64.7	51	69	57.8	46	100	80.0	42	21	7.9	0	29.7	29

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Appendix G

Offsite Vapor Intrusion Risk Calculations and Input Parameters

Appendix G
Risk Calculations and Input Parameters

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Appendix G.1: Toxicity Values
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	Cancer Classification		ADAF			URF ($mg/m^3)^{-1}$			RfC (mg/m^3)			
			Group	Ref	Y/N	f_{oral}	f_{inh}	Value	Ref	Notes	Value	UF	Ref	Notes
VOC	Acetone	67-64-1	ID	1	N									
VOC	Benzene	71-43-2	A	1	N			7.8E-03	1	60	3.0E-02	300	1	
VOC	Chlorobenzene	108-90-7	D	1	N						5.0E-02	1,000	126	
VOC	1,1-Dichloroethene	75-35-4	C	1	N						2.0E-01	30	1	
VOC	cis-1,2-Dichloroethene	156-59-2	ID	1	N						4.0E-02		126	
VOC	Toluene	108-88-3	ID	1	N						5.0E+00	10	1	
VOC	Trichloroethene	79-01-6	HC	1	Y	0.202	0.244	4.1E-03	1	159	2.0E-03	100	1	
VOC	Vinyl Chloride	75-01-4	A	1	N			4.4E-03	1	79	1.0E-01	30	1	

Toxicity values were selected following the hierarchy of sources defined by USEPA (Human Health Toxicity Values in Superfund Risk Assessment, 2003), as discussed in Appendix A, Section 4 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision. Values are current as of January 2025.

References

1 USEPA. Integrated Risk Information System (IRIS). On-line database.

126 Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV) Database.

Notes:

60 IRIS provides a range of 2.2E-6 to 7.8E-6 (ug/m3)-1 as the inhalation URF for Benzene.

79 For evaluating partial lifetime exposures that include early-life exposure, the unit risk factor is also used in risk calculations that do not prorate the early-life exposure, per USEPA's May 2000 Toxicological Review.

159 Because the chemical has a mutagenic mode of action according to USEPA, the SF and URF are adjusted by the following age-dependent adjustment factors (ADAFs) before use: 10 for ages 0 to 2; 3 for ages 2 to 16; and 1 for ages 16 and older (USEPA 2005).

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Appendix G.2: Physical and Chemical Properties
Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	H (unitless)				D_{air} (m^2/d)		D_{water} (m^2/d)		HENRY Ref Temp (°C)
			Value	Adjusted	Ref	Notes	Value	Ref	Value	Ref	Value
VOC	Acetone	67-64-1	1.6E-03	1.1E-03	44		1.1E+00	44	9.8E-05	44	2.5E+01
VOC	Benzene	71-43-2	2.3E-01	1.6E-01	44		7.6E-01	44	8.5E-05	44	2.5E+01
VOC	Chlorobenzene	108-90-7	1.5E-01	9.8E-02	44		6.3E-01	44	7.5E-05	44	2.5E+01
VOC	1,1-Dichloroethene	75-35-4	1.1E+00	8.1E-01	44		7.8E-01	44	9.0E-05	44	2.5E+01
VOC	cis-1,2-Dichloroethene	156-59-2	1.7E-01	1.2E-01	44		6.4E-01	44	9.8E-05	44	2.5E+01
VOC	Toluene	108-88-3	2.7E-01	1.8E-01	44		7.5E-01	44	7.4E-05	44	2.5E+01
VOC	Trichloroethene	79-01-6	4.2E-01	2.9E-01	44		6.8E-01	44	7.9E-05	44	2.5E+01
VOC	Vinyl Chloride	75-01-4	1.1E+00	9.0E-01	44		9.2E-01	44	1.1E-04	71	2.5E+01

Physical and chemical parameters were selected following the hierarchy of sources used by USEPA (Soil Screening Guidance: Technical Background Document, 1996), as discussed in Appendix A, Section 54 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

References:

44 USEPA. 1996. Soil Screening Guidance: Technical Background Document and User Guide. Office of Emergency and Remedial Response. EPA/540/R-95/128. May.

71 USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response. OSWER 9355.4-24. December.

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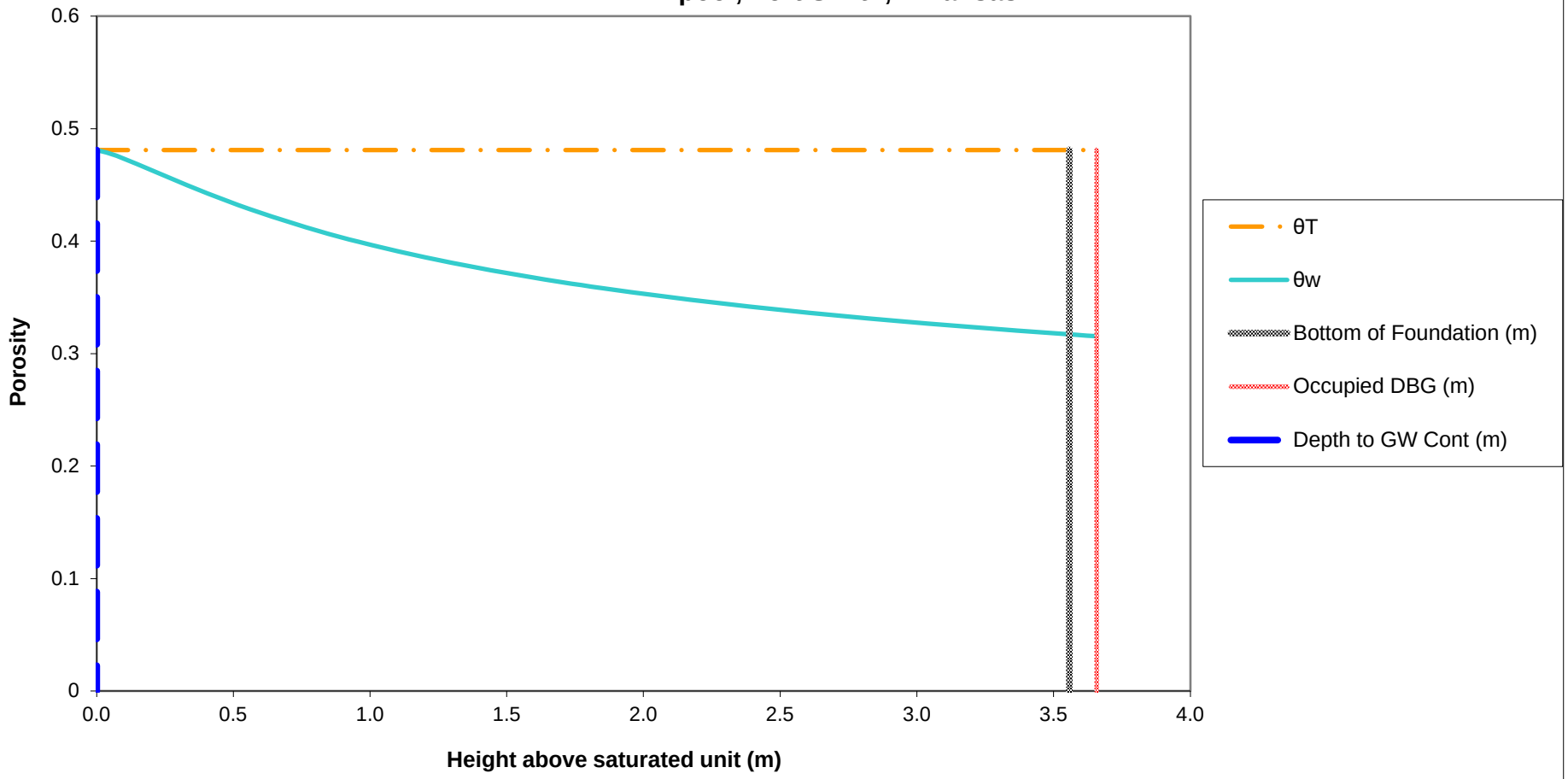
Appendix G.3: Soil Moisture Profile for Residential Building (Slab-on-Grade) for Risk Calculations from Groundwater at Monitoring Wells Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

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Appendix G.4: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at Monitoring Wells Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.72E-01	1.87E-02	6.80E-02	2.73E-03	1.86E-04	2.12E-04
VOC	Chlorobenzene	108-90-7	6.31E-01	7.52E-05	9.77E-02	1.01E-01	9.32E-04	3.63E-03	2.73E-03	9.91E-06	9.68E-04
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.21E-01	6.97E-04	2.71E-03	2.73E-03	7.41E-06	1.34E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.44E-04	1.34E-03	2.73E-03	3.66E-06	3.30E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

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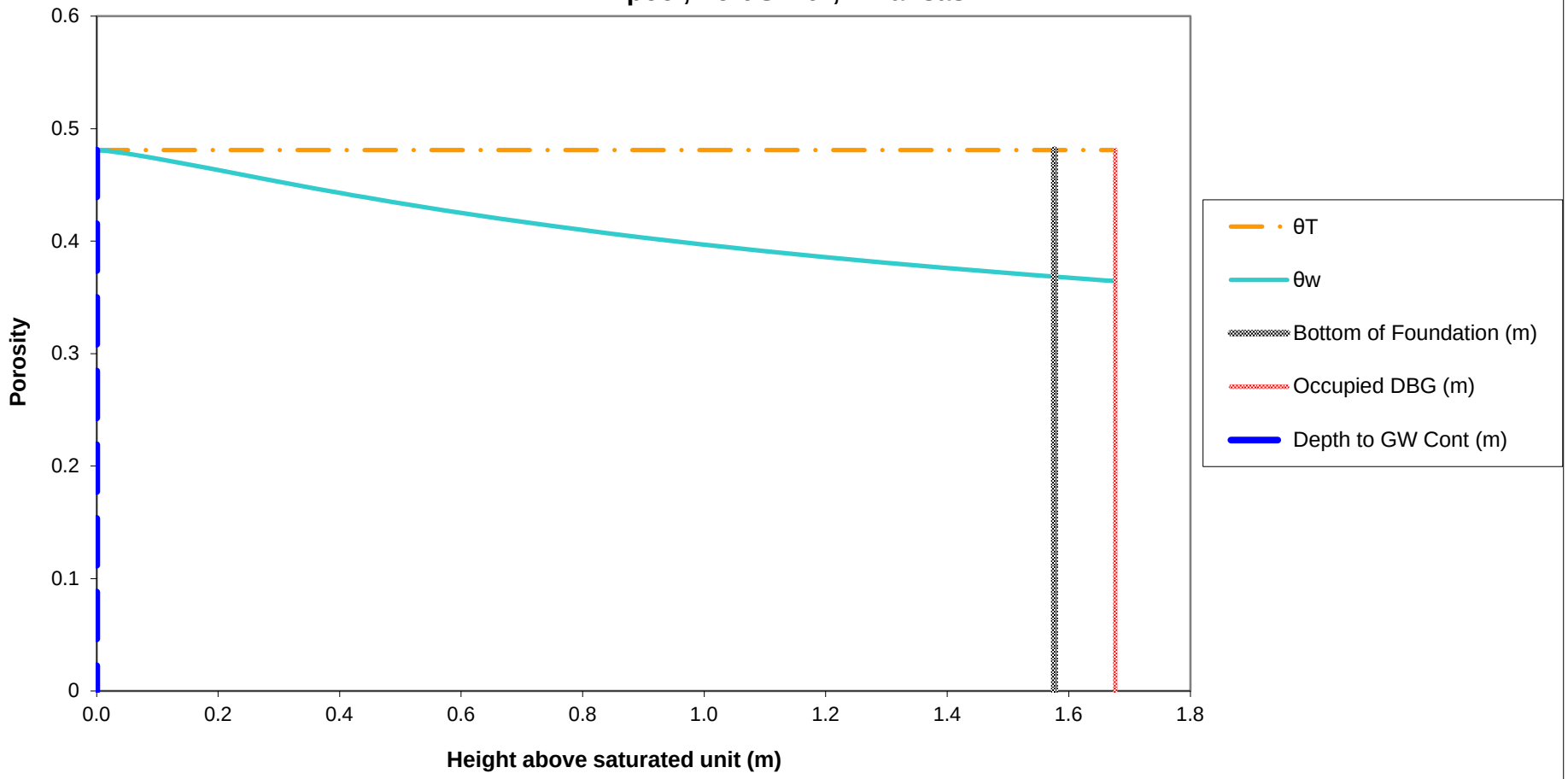
Appendix G.5: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater Monitoring Wells in the Neighborhood Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	7.70E-02	1.63E-05						
VOC	Chlorobenzene	108-90-7	D	N	4.10E-03	3.97E-06					5.0E-02	7.6E-05
VOC	1,1-Dichloroethene	75-35-4	C	N	2.10E-03	5.65E-06					2.0E-01	2.7E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	9.90E-03	1.21E-05					4.0E-02	2.9E-04
VOC	Toluene	108-88-3	ID	N	4.40E-03	5.88E-06					5.0E+00	1.1E-06
VOC	Trichloroethene	79-01-6	HC	Y	4.80E-01	7.70E-04	4.1E-03	0.2439	1.8E-06		2.0E-03	3.7E-01
VOC	Vinyl Chloride	75-01-4	A	N	2.30E-02	7.58E-05	4.4E-03		4.7E-07		1.0E-01	7.3E-04
							Cumulative Risk:		2E-06		**HI:**	4E-01
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 groundwater samples from wells in the neighborhood are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.6: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

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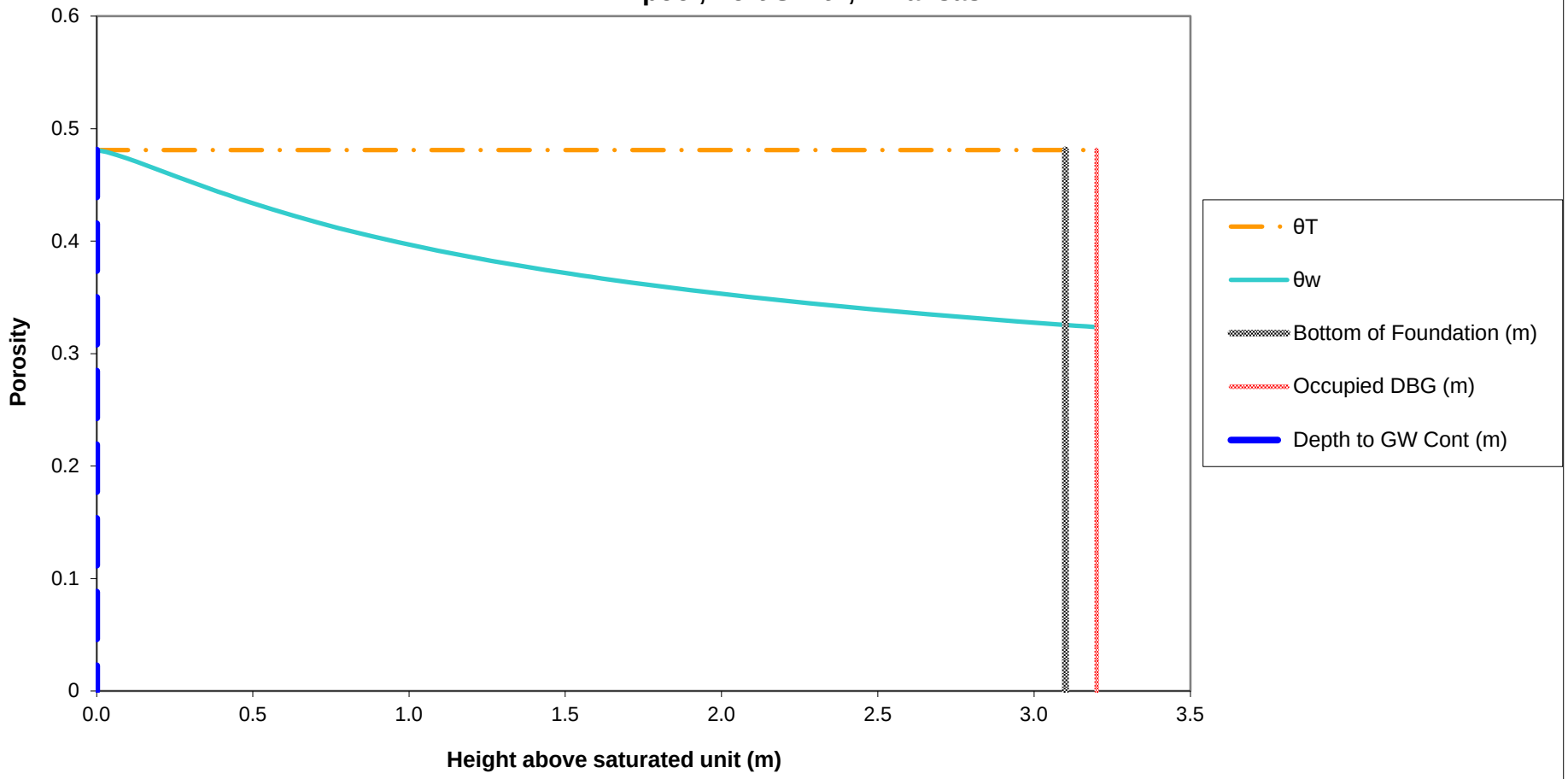
Appendix G.7: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_{∞}	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.61E-01	2.07E-02	1.54E-01	2.73E-03	4.21E-04	4.80E-04
VOC	Benzene	71-43-2	7.60E-01	8.47E-05	1.59E-01	1.14E-01	4.01E-04	3.52E-03	2.73E-03	9.63E-06	1.53E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.03E-01	2.50E-04	2.19E-03	2.73E-03	6.00E-06	1.73E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.061							
	Air-filled porosity	L/L-soil	θ_a	0.314							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.023							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.983							
	Permeability to vapor	cm^2	k_v	9.74E-08							
	Distance from building foundation to source	m	L_{T-gw}	1.58							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

Appendix G.8: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-7 (Parcel 2) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	6.50E-02	3.12E-05						
VOC	Benzene	71-43-2	A	N	4.40E-04	6.73E-07	7.8E-03		2.2E-09		3.0E-02	2.2E-05
VOC	Trichloroethene	79-01-6	HC	Y	6.20E-03	1.07E-05	4.1E-03	0.2439	2.5E-08		2.0E-03	5.1E-03
							Cumulative Risk:		3E-08		**HI:**	5E-03
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 water sample at VP-7 (Parcel 2) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.9: Soil Moisture Profile for Residential Building (Slab-on-Grade) at at Soil Vapor Monitoring Point VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Appendix G.10: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	8.60E-04	3.84E-03	2.73E-03	1.05E-05	1.24E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.09E-01	4.58E-04	2.05E-03	2.73E-03	5.59E-06	1.61E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.055							
	Air-filled porosity	L/L-soil	θ_a	0.320							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.005							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.997							
	Permeability to vapor	cm^2	k_v	9.88E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.10							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

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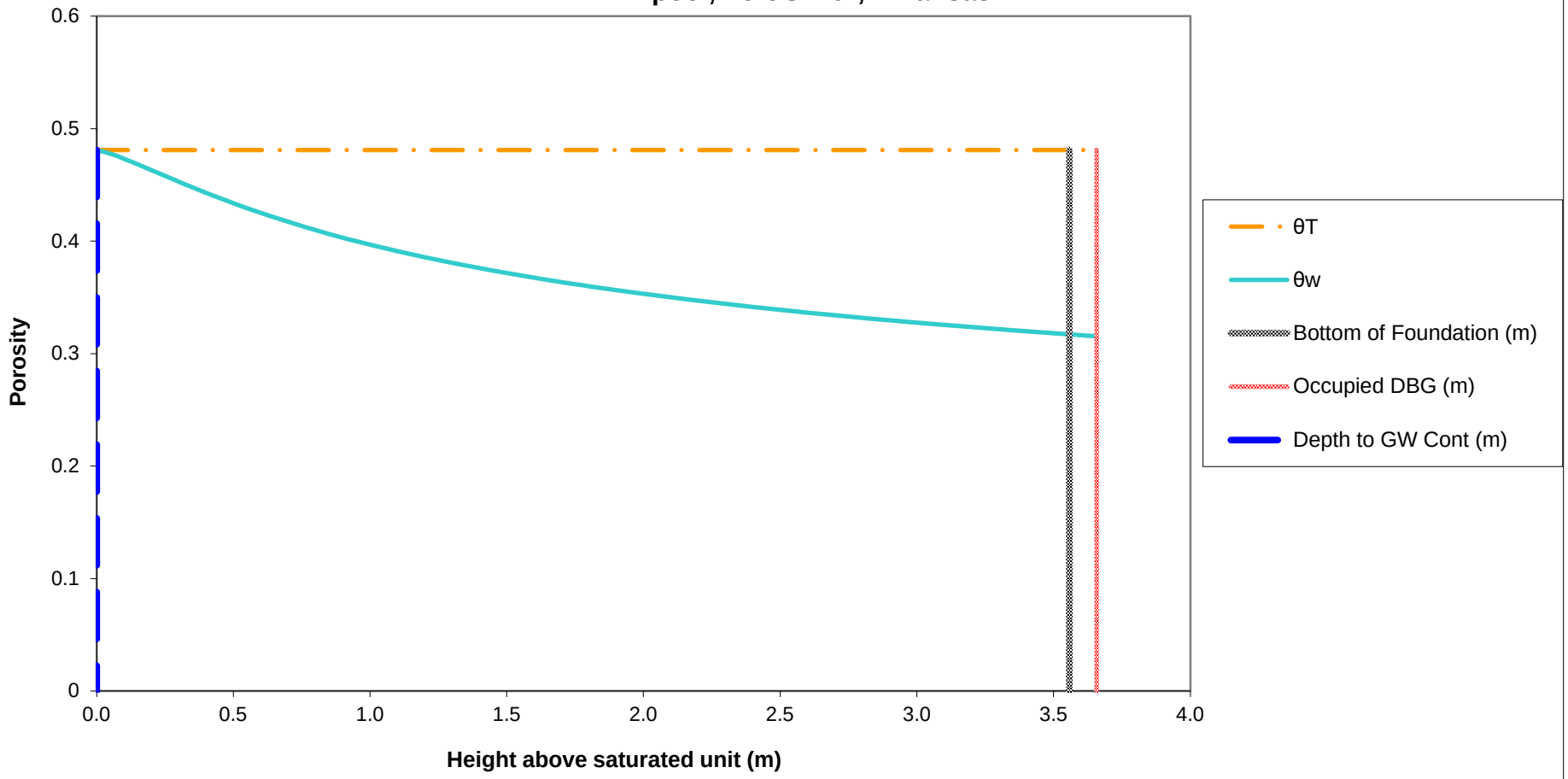
Appendix G.11: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-8 (Parcel 2) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	7.60E-04	9.45E-07					4.0E-02	2.3E-05
VOC	Trichloroethene	79-01-6	HC	Y	1.10E-02	1.77E-05	4.1E-03	0.2439	4.1E-08		2.0E-03	8.5E-03
							Cumulative Risk:		4E-08		**HI:**	9E-03
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 groundwater sample at at VP-8 (Parcel 2) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.12: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-175 (Parcel 2) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Appendix G.13: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at MW-175 (Parcel 2) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

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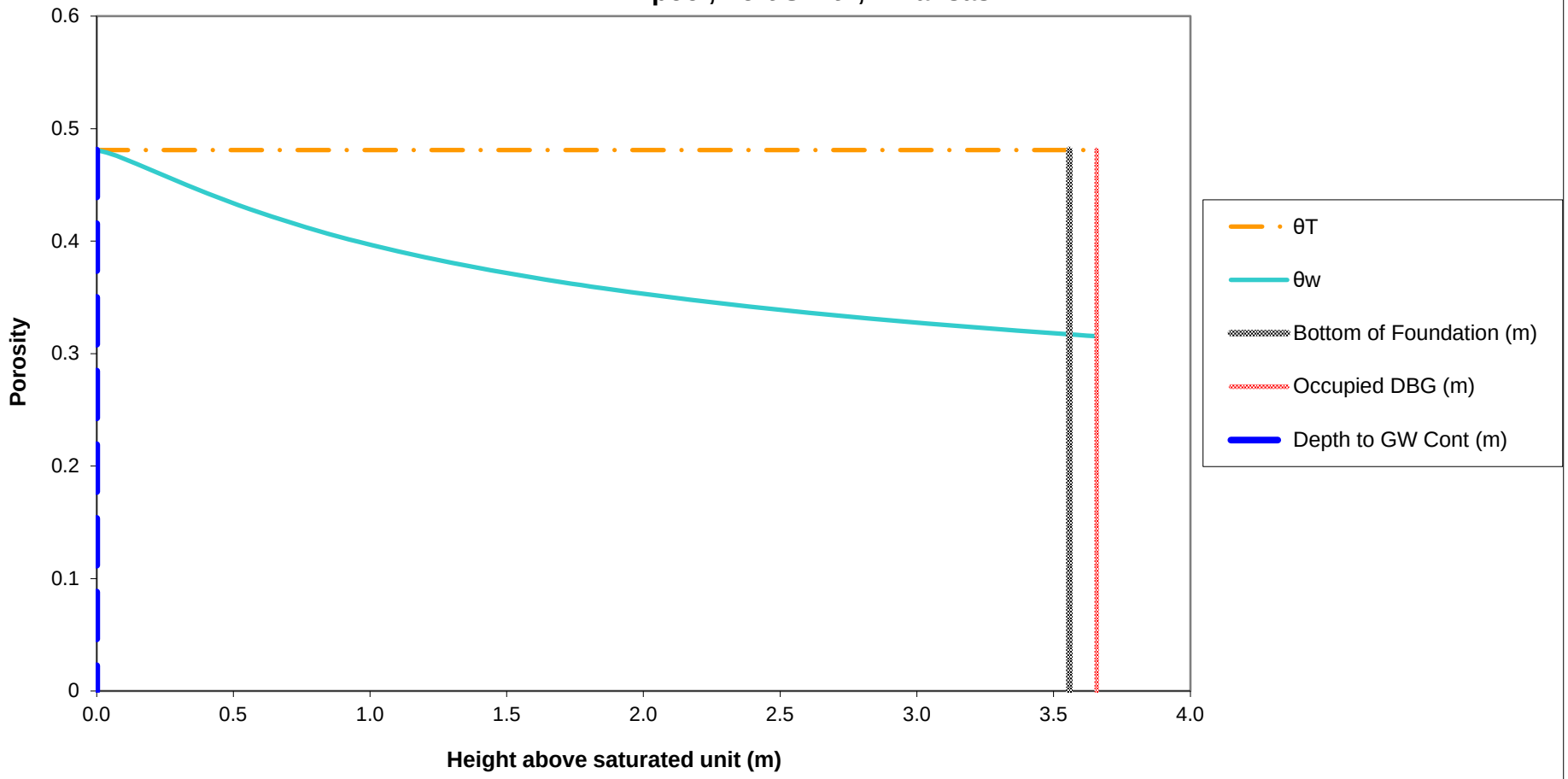
Appendix G.14: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-175 (Parcel 2) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	2.70E-03	3.31E-06					4.0E-02	7.9E-05
VOC	Trichloroethene	79-01-6	HC	Y	9.30E-02	1.49E-04	4.1E-03	0.2439	3.5E-07		2.0E-03	7.2E-02
							Cumulative Risk:		3E-07		**HI:**	7E-02
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 water sample at MW-175 (Parcel 2) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.15: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Groundwater Monitoring Well MW-176 (Parcel 3) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Appendix G.16: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Groundwater at MW-176 (Parcel 3) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	1,1-Dichloroethene	75-35-4	7.78E-01	8.99E-05	8.10E-01	1.25E-01	3.12E-04	1.22E-03	2.73E-03	3.32E-06	2.69E-03
VOC	cis-1,2-Dichloroethene	156-59-2	6.36E-01	9.76E-05	1.19E-01	1.02E-01	9.72E-04	3.78E-03	2.73E-03	1.03E-05	1.22E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.23E-04	2.04E-03	2.73E-03	5.57E-06	1.60E-03
VOC	Vinyl Chloride	75-01-4	9.16E-01	1.06E-04	9.00E-01	1.47E-01	3.44E-04	1.34E-03	2.73E-03	3.66E-06	3.30E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.054							
	Air-filled porosity	L/L-soil	θ_a	0.321							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.004							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.998							
	Permeability to vapor	cm^2	k_v	9.89E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.56							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

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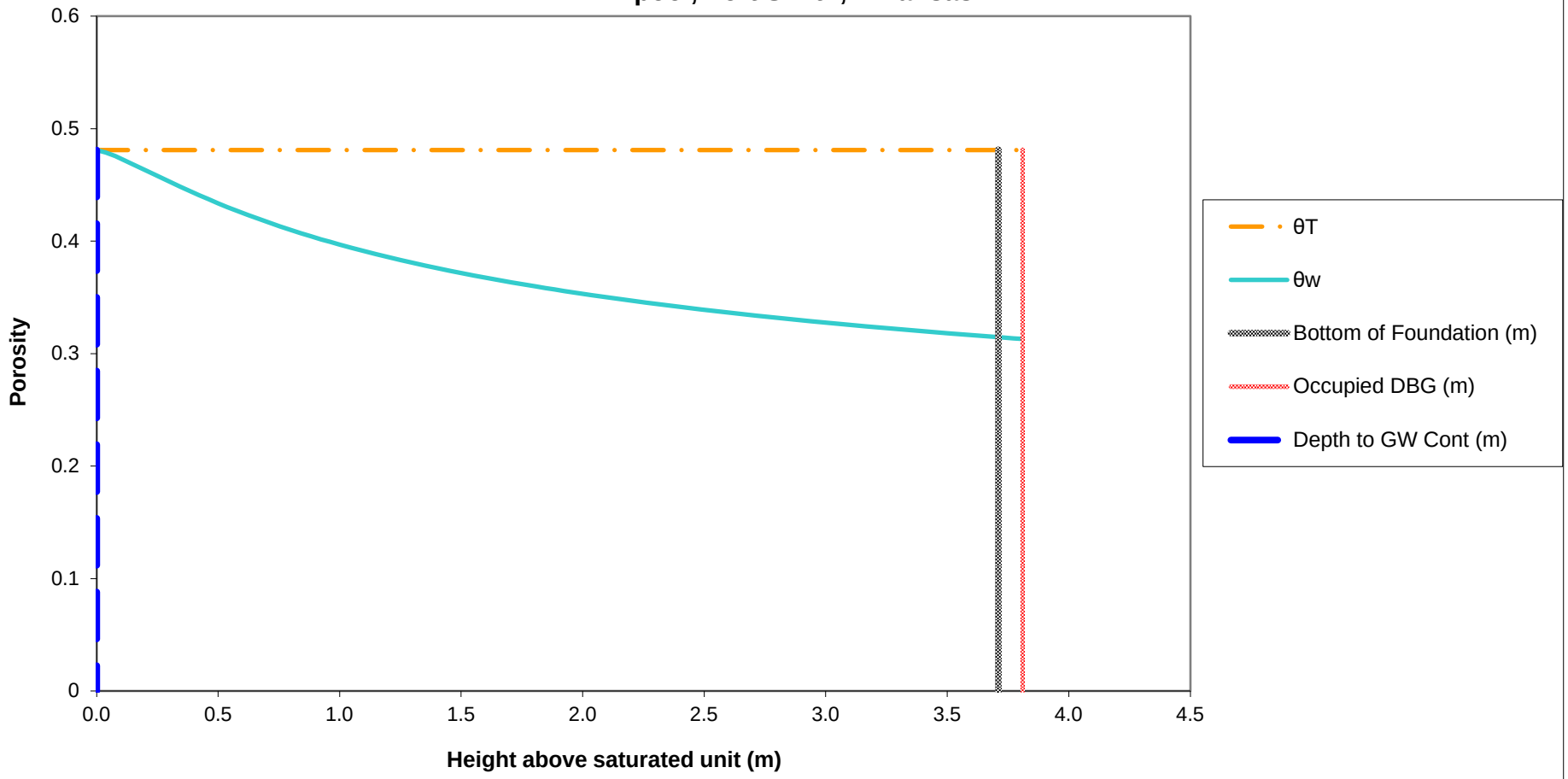
Appendix G.17: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Groundwater at MW-176 (Parcel 3) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	1,1-Dichloroethene	75-35-4	C	N	1.80E-03	4.84E-06					2.0E-01	2.3E-05
VOC	cis-1,2-Dichloroethene	156-59-2	ID	N	9.80E-03	1.20E-05					4.0E-02	2.9E-04
VOC	Trichloroethene	79-01-6	HC	Y	1.50E-01	2.41E-04	4.1E-03	0.2439	5.6E-07		2.0E-03	1.2E-01
VOC	Vinyl Chloride	75-01-4	A	N	2.30E-02	7.58E-05	4.4E-03		4.7E-07		1.0E-01	7.3E-04
							Cumulative Risk:		1E-06		**HI:**	1E-01
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 groundwater sample at MW-176 (Parcel 3) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.18: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-12 (Parcel 4) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

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Appendix G.19: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-12 (Parcel 4) Whirlpool, Fort Smith, Arkansas

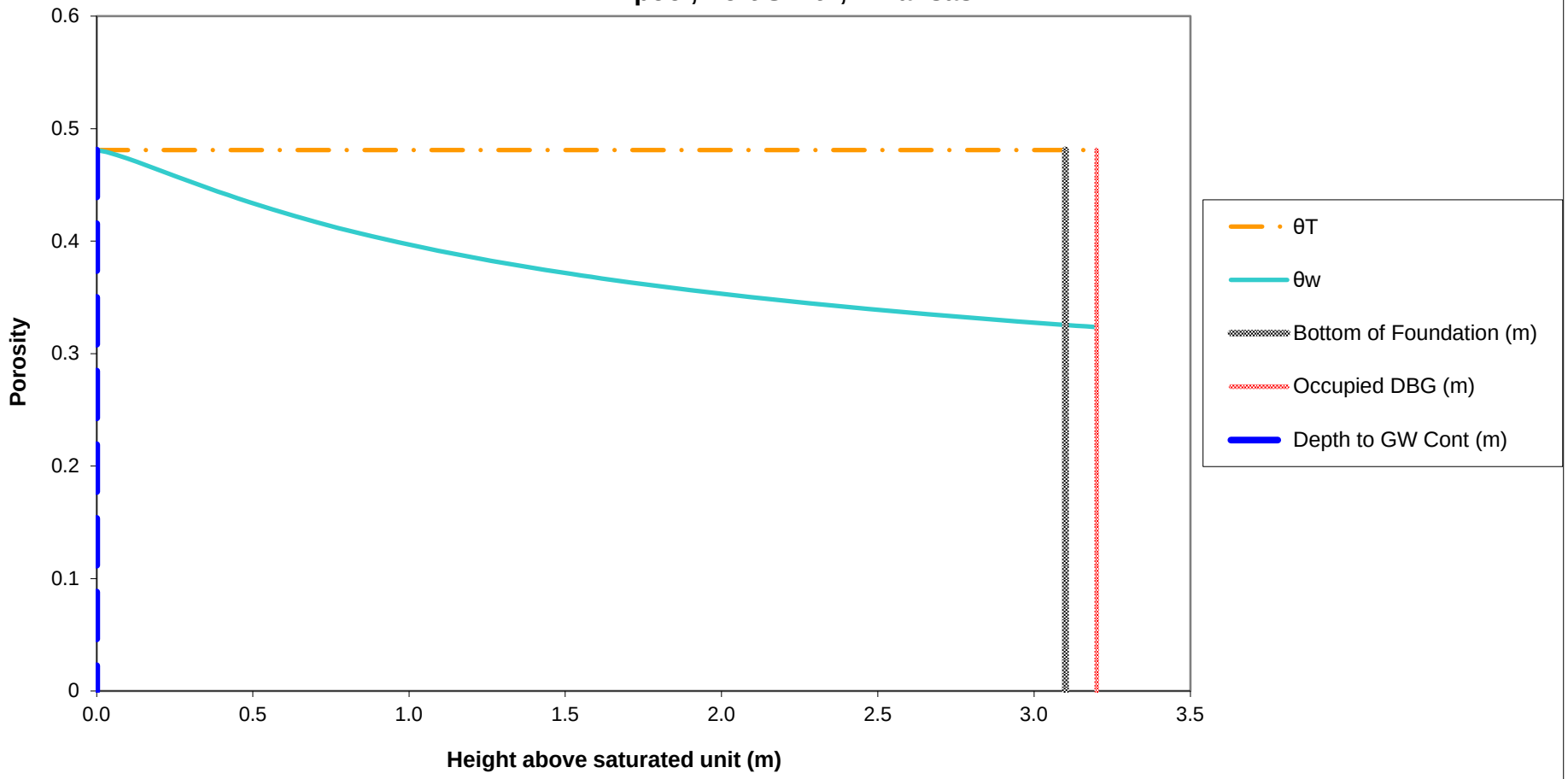
Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.10E-01	5.43E-04	2.03E-03	2.73E-03	5.54E-06	1.60E-03

Notes:	**Crack Soil and Building Characteristics**		**Crack Soil**	
	SCS Soil texture class		Sand	
	Bulk density	kg/L	ρ_b	1.66
	Total porosity	L/L-soil	θ_T	0.375
	Water-filled porosity	L/L-soil	θ_w	0.054
	Air-filled porosity	L/L-soil	θ_a	0.321
	Residual saturation	L/L-soil	θ_r	0.053
	Hydraulic conductivity	cm/s	K	7.4E-03
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307
	Density of water	g/cm^3	ρ_w	1.0
	Gravitational acceleration	cm/s^2	g	980.7
	Intrinsic permeability	cm^2	k	9.9E-08
	Relative saturation	unitless	S_e	0.004
	van Genuchten N	unitless	N	3.177
	van Genuchten M	unitless	M	0.685
	Relative air permeability	unitless	k_{rg}	0.998
	Permeability to vapor	cm^2	k_v	9.89E-08
	Distance from building foundation to source	m	L_{T-gw}	3.71
	Bldg foundation thickness	m	L_{crack}	0.1
	Bldg foundation length	m		10.00
	Bldg foundation width	m		10.00
	Bldg occupied height	m		2.44
	Bldg occupied volume	m^3		244.00
	Occupied depth below ground	m		0.0
	Bldg area for vapor intrusion	m^2	A_B	100.0
	Ratio of A_{crack} to A_B		η	4E-04
	Area of cracks	m^2	A_{crack}	4E-02
	Air exchange rate	$hour^{-1}$	ach	0.45
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.			
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.			

Appendix G.20: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-12 (Parcel 4) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Trichloroethene	79-01-6	HC	Y	1.20E-02	1.92E-05	4.1E-03	0.2439	4.4E-08		2.0E-03	9.2E-03
							Cumulative Risk:		4E-08		**HI:**	9E-03
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 groundwater sample at VP-12 (Parcel 4) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix G.21: Soil Moisture Profile for Residential Building (Slab-on-Grade) at Soil Vapor Monitoring Point VP-14 (Parcel 5) Whirlpool, Fort Smith, Arkansas



Notes:
The soil-water profile in the vadose zone is estimated using the van Genuchten soil-water retention equation with default water retention parameters appropriate for silt clay, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.

Appendix G.22: Normalized Indoor Air Concentration in a Residential Building (Slab-on-Grade) due to Vapor Intrusion from Perched Water at VP-14 (Parcel 5) Whirlpool, Fort Smith, Arkansas

Chem Group	Chemical	CASRN	D_{air} (m^2/day)	D_{water} (m^2/day)	H (unitless)	D_{crack} (m^2/day)	D_{eff}^T (m^2/day)	α_{soil}	α_{slab}	α_∞	C_{bldg} (L-water/m^3)
VOC	Acetone	67-64-1	1.07E+00	9.85E-05	1.14E-03	1.71E-01	1.87E-02	7.73E-02	2.73E-03	2.11E-04	2.41E-04
VOC	Chlorobenzene	108-90-7	6.31E-01	7.52E-05	9.77E-02	1.01E-01	8.24E-04	3.68E-03	2.73E-03	1.00E-05	9.82E-04
VOC	Toluene	108-88-3	7.52E-01	7.43E-05	1.80E-01	1.20E-01	6.11E-04	2.73E-03	2.73E-03	7.46E-06	1.35E-03
VOC	Trichloroethene	79-01-6	6.83E-01	7.86E-05	2.88E-01	1.09E-01	4.58E-04	2.05E-03	2.73E-03	5.59E-06	1.61E-03
Notes:	**Crack Soil and Building Characteristics**			**Crack Soil**							
	SCS Soil texture class			Sand							
	Bulk density	kg/L	ρ_b	1.66							
	Total porosity	L/L-soil	θ_T	0.375							
	Water-filled porosity	L/L-soil	θ_w	0.055							
	Air-filled porosity	L/L-soil	θ_a	0.320							
	Residual saturation	L/L-soil	θ_r	0.053							
	Hydraulic conductivity	cm/s	K	7.4E-03							
	Dynamic viscosity of water	g/cm-s	μ_w	0.01307							
	Density of water	g/cm^3	ρ_w	1.0							
	Gravitational acceleration	cm/s^2	g	980.7							
	Intrinsic permeability	cm^2	k	9.9E-08							
	Relative saturation	unitless	S_e	0.005							
	van Genuchten N	unitless	N	3.177							
	van Genuchten M	unitless	M	0.685							
	Relative air permeability	unitless	k_{rg}	0.997							
	Permeability to vapor	cm^2	k_v	9.88E-08							
	Distance from building foundation to source	m	L_{T-gw}	3.10							
	Bldg foundation thickness	m	L_{crack}	0.1							
	Bldg foundation length	m		10.00							
	Bldg foundation width	m		10.00							
	Bldg occupied height	m		2.44							
	Bldg occupied volume	m^3		244.00							
	Occupied depth below ground	m		0.0							
	Bldg area for vapor intrusion	m^2	A_B	100.0							
	Ratio of A_{crack} to A_B		η	4E-04							
	Area of cracks	m^2	A_{crack}	4E-02							
	Air exchange rate	$hour^{-1}$	ach	0.45							
	Building ventilation rate	m^3/day	Q_{bldg}	2.64E+03							
	Soil gas flow rate into bldg	m^3/day	Q_{soil}	7.20							
	Indoor air concentrations resulting from groundwater vapor intrusion into a building are estimated using the relationships described by Johnson and Ettinger (Heuristic model for predicting the intrusion rate of contaminant vapors into buildings, 1991), which USEPA recommends for screening level calculations, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Plan, which was used as the basis for the ADEQ Remedial Action Decision.										
	The effective diffusion term DeffT is calculated based on a silty clay soil, as discussed in Appendix A, Section 3.3.1 of the ADEQ-approved Revised Risk Management Program.										

RAMBOLL

Appendix G.23: Cancer Risk and Hazard Index Calculations for Vapor Intrusion into a Residential Building (Slab-on-Grade) from Perched Water at VP-14 (Parcel 5) Whirlpool, Fort Smith, Arkansas

							Cancer				Noncancer	
Chem Group	**Chemical**	**CASRN**	**Carc Class**	**ADAF**	**C_{gw}** (mg/L)	**$C_{building}$** (mg/m^3)	**URF** (m^3/mg)	**f_{inh}**	**Risk**		**RfC** (mg/m^3)	**HQ**
VOC	Acetone	67-64-1	ID	N	1.60E-02	3.85E-06						
VOC	Chlorobenzene	108-90-7	D	N	1.10E-03	1.08E-06					5.0E-02	2.1E-05
VOC	Toluene	108-88-3	ID	N	4.20E-03	5.65E-06					5.0E+00	1.1E-06
VOC	Trichloroethene	79-01-6	HC	Y	1.90E-03	3.06E-06	4.1E-03	0.2439	7.1E-09		2.0E-03	1.5E-03
							Cumulative Risk:		7E-09		**HI:**	1E-03
Note:												
f_{inh} is the fraction of the inhalation URF that USEPA identified as having a mutagenic mode of action.												
Only VOCs detected in the Annual 2024 groundwater sample at VP-14 (Parcel 5) are shown.												
Risks were calculated assuming residential exposure to groundwater-derived vapors in indoor air for 24 hours per day and 350 days per year for 30 years.												

Appendix H

Offsite Soil Boring and Well Construction Logs

SOIL BORING LOG: HP-27

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 21.0 ft	START TIME: 09:40 STOP TIME: 10:15
DEPTH TO WATER: 14.0 ft	DATE(S): 06/17/2024
ELEVATION AT GRADE: 469.47 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY
SM SILTY SAND

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	3.0 / 4.0	MC		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), moist, soft, non-plastic	
				CL-ML	1.0 - 12.0	Silty CLAY, yellowish brown (10YR 5/6), moist, medium, low-plasticity	
4	4.0 / 4.0						
8	4.0 / 4.0						
12	4.0 / 4.0			SM	12.0 - 16.0	Silty SAND, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist to wet, medium dense	
16	2.0 / 2.0			SP-SM	16.0 - 21.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
20	2.0 / 2.0 2.0 / 2.0 1.0 / 1.0	MC		SP-SM	16.0 - 21.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
						EOB at 21.0 ft	
24							
28							
32							
36							
40							
44							
48							

COMMENTS:

SOIL BORING LOG: HP-28

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 24.1 ft	START TIME: 10:41 STOP TIME: 11:00
DEPTH TO WATER: 19.0 ft	DATE(S): 06/17/2024
ELEVATION AT GRADE: 471.74 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SC Poorly Graded SAND with CLAY
ML SILT
CL-ML SILTY CLAY
SM SILTY SAND

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.5 / 4.0	MC		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), moist, soft, non-plastic	
				CL-ML	1.0 - 12.0	Silty CLAY, yellowish brown (10YR 5/6), dry to moist, medium, low-plasticity	
4	4.0 / 4.0						
8	4.0 / 4.0						
12	4.0 / 4.0			SM	12.0 - 20.0	Silty SAND with trace GRAVEL, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist, medium dense	
16	2.0 / 2.0						

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC		SM	12.0 - 20.0	Silty SAND with trace GRAVEL, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist, medium dense	
	2.0 / 2.0						
20	2.0 / 2.0			SP-SC	20.0 - 24.0	Poorly-graded SAND with CLAY and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
	2.0 / 2.0						
24					24.0 - 24.0	Bedrock (SHALE)	
						EOB at 24.1 ft	
28							
32							
36							
40							
44							
48							

COMMENTS:

SOIL BORING LOG: HP-29

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 27.0 ft	START TIME: 12:54 STOP TIME: 13:17
DEPTH TO WATER: 19.0 ft	DATE(S): 06/17/2024
ELEVATION AT GRADE: 471.99 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SC	CLAYEY SAND
CL	Lean CLAY
SP-SM	Poorly Graded SAND with SILT
ML	SILT
CL-ML	SILTY CLAY

LEGEND:

EOB	End of Boring
MC	Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	3.0 / 4.0	MC		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
				CL-ML	1.0 - 16.0	Silty CLAY with trace GRAVEL, yellowish brown (10YR 5/6), moist, medium, low-plasticity	
4	4.0 / 4.0						
8	4.0 / 4.0						
12	4.0 / 4.0						
16	2.0 / 2.0			CL	16.0 - 20.0	Sandy CLAY, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), medium, low-plasticity	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC		CL	16.0 - 20.0	Sandy CLAY, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), medium, low-plasticity	
	2.0 / 2.0						
20	2.0 / 2.0			SC	20.0 - 24.0	Clayey SAND with gravel, light gray (10YR 7/1) with yellowish brown (10YR 5/6) staining, wet, medium dense	
	2.0 / 2.0						
24	2.0 / 2.0			SP-SM	24.0 - 27.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), wet, loose	
	1.0 / 1.0						
					27.0 - 27.0	Bedrock (Shale)	
28						EOB at 27.0 ft	
32							
36							
40							
44							
48							

COMMENTS:

SOIL BORING LOG: HP-30

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 27.0 ft	START TIME: 13:36 STOP TIME: 13:59
DEPTH TO WATER: Not Measured	DATE(S): 06/17/2024
ELEVATION AT GRADE: 471.59 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SC	CLAYEY SAND
CL	Lean CLAY
SP-SM	Poorly Graded SAND with SILT
ML	SILT
CL-ML	SILTY CLAY

LEGEND:

EOB	End of Boring
MC	Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	3.5 / 4.0	MC		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic
				CL-ML	1.0 - 8.0	Silty CLAY, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), moist, medium, low-plasticity
4	4.0 / 4.0					
8	4.0 / 4.0			CL	8.0 - 20.0	Sandy CLAY with trace GRAVEL, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), moist, medium, low-plasticity
12	4.0 / 4.0					
16	2.0 / 2.0					

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	2.0 / 2.0	MC		CL	8.0 - 20.0	Sandy CLAY with trace GRAVEL, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), moist, medium, low-plasticity
	2.0 / 2.0					
20	2.0 / 2.0			SC	20.0 - 24.0	Clayey SAND, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist, medium dense
	2.0 / 2.0					
24	2.0 / 2.0			SP-SM	24.0 - 27.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist, loose
	1.0 / 1.0					
					27.0 - 27.0	Bedrock (Shale)
28						EOB at 27.0 ft
32						
36						
40						
44						
48						

COMMENTS:

SOIL BORING LOG: HP-31

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 27.0 ft	START TIME: 14:51 STOP TIME: 15:30
DEPTH TO WATER: 18.0 ft	DATE(S): 06/17/2024
ELEVATION AT GRADE: 471.13 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SC	CLAYEY SAND
CL	Lean CLAY
-	None
SP-SM	Poorly Graded SAND with SILT
ML	SILT
CL-ML	SILTY CLAY

LEGEND:

EOB	End of Boring
MC	Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	3.5 / 4.0	MC		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
4	4.0 / 4.0			CL-ML	1.0 - 12.0	Silty CLAY with trace GRAVEL, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
8	4.0 / 4.0						
12	4.0 / 4.0			-	12.0 - 16.0	No Recovery	
16	2.0 / 2.0			CL	16.0 - 18.0	Sandy Clay, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), moist, medium, low-plasticity	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC		CL	16.0 - 18.0	Sandy Clay, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), moist, medium, low-plasticity	
	2.0 / 2.0			SC	18.0 - 22.0	Clayey SAND, yellowish brown (10YR 5/6), moist to wet, medium dense	
20	2.0 / 2.0						
	2.0 / 2.0			SP-SM	22.0 - 27.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
24	2.0 / 2.0						
	1.0 / 1.0						
					27.0 - 27.0	Bedrock (Shale)	
28						EOB at 27.0 ft	
32							
36							
40							
44							
48							

COMMENTS:

SOIL BORING LOG: HP-32

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 27.0 ft	START TIME: 07:48 STOP TIME: 08:12
DEPTH TO WATER: 23.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 469.57 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SC CLAYEY SAND
SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	4.0 / 4.0	MC	0		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
			0		ML	1.0 - 8.0	SILT, grayish brown (10YR 5/2), moist, soft, non-plastic	
4	4.0 / 4.0		0					
			0					
8	4.0 / 4.0		0		CL-ML	8.0 - 18.0	Silty CLAY with trace GRAVEL, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
			0					
12	4.0 / 4.0		0					
			0					
16	2.0 / 2.0		0					

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC			CL-ML	8.0 - 18.0	Silty CLAY with trace GRAVEL, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
	2.0 / 2.0		0		SC	18.0 - 20.0	Clayey SAND with trace GRAVEL, yellowish brown (10YR 5/6), moist, medium dense	
20	2.0 / 2.0		0		SP-SM	20.0 - 27.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
	2.0 / 2.0		0					
24	2.0 / 2.0		0					
	1.0 / 1.0		0					
						27.0 - 27.0	Bedrock (Shale)	
28							EOB at 27.0 ft	
32								
36								
40								
44								
48								

COMMENTS:

SOIL BORING LOG: HP-33

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER:	PROJECT NUMBER: 1940108230, 1940108800
RIG:	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY:
TOTAL DEPTH: 31.0 ft	START TIME: 13:40 STOP TIME: 14:10
DEPTH TO WATER: 19.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 480.89 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

CL Lean CLAY
SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	3.0 / 4.0		0		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
			0		ML	1.0 - 8.0	SILT, yellowish brown (10YR 5/6), dry, stiff, non-plastic	
4	4.0 / 4.0		0					
			0					
8	4.0 / 4.0		0		CL-ML	8.0 - 24.0	Silty CLAY, yellowish brown (10YR 5/6), dry to moist, medium, low-plasticity	
			0					
12	4.0 / 4.0		0					
			0					
16	2.0 / 2.0		0					

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0		0		CL-ML	8.0 - 24.0	Silty CLAY, yellowish brown (10YR 5/6), dry to moist, medium, low-plasticity	
	2.0 / 2.0							
20	2.0 / 2.0		0					
	2.0 / 2.0		0					
24	2.0 / 2.0		0		CL	24.0 - 28.0	Sandy CLAY, yellowish brown (10YR 5/6), wet, medium, low-plasticity	
	2.0 / 2.0		0					
28	2.0 / 2.0		0		SP-SM	28.0 - 30.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), wet, loose	
			0			30.0 - 31.0	Bedrock (SHALE)	
32							EOB at 31.0 ft	
36								
40								
44								
48								

COMMENTS:

SOIL BORING LOG: HP-34

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 32.0 ft	START TIME: 14:45 STOP TIME: 15:10
DEPTH TO WATER: 23.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 482.61 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SC CLAYEY SAND
ML SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	4.0 / 4.0	MC	0		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
			0		ML	1.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), dry, soft, non-plastic	
4	1.0 / 4.0		0		CL-ML	4.0 - 16.0	Silty CLAY, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
			0					
8	4.0 / 4.0		0					
			0					
12	4.0 / 4.0		0					
			0					
16	2.0 / 2.0		0		ML	16.0 - 24.0	SILT, yellowish brown (10YR 5/6), moist to wet, medium to stiff, non-plastic	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
20	2.0 / 2.0	MC	0		ML	16.0 - 24.0	SILT, yellowish brown (10YR 5/6), moist to wet, medium to stiff, non-plastic	
	2.0 / 2.0		0					
	2.0 / 2.0		0					
24	2.0 / 2.0		0					
	2.0 / 2.0		0		SC	24.0 - 30.0	Clayey SAND, yellowish brown (10YR 5/6), wet, loose	
28	2.0 / 2.0		0					
			0			30.0 - 32.0	Bedrock (SHALE)	
32							EOB at 32.0 ft	
36								
40								
44								
48								

COMMENTS:

SOIL BORING LOG: HP-35

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 36.5 ft	START TIME: 15:15 STOP TIME: 16:25
DEPTH TO WATER: 27.0 ft	DATE(S): 06/19/2024
ELEVATION AT GRADE: 481.45 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY
GW-GC Well Graded GRAVEL with CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	4.0 / 4.0	MC	19.5			0 - 1.0	Asphalt with GRAVEL subgrade (No Recovery)	
			0.1		ML	1.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), dry, medium, low-plasticity	
4	4.0 / 4.0		2.1		ML	4.0 - 8.0	Sandy SILT, yellowish brown (10YR 5/6), dry, stiff, non-plastic	
			0.2					
8	2.0 / 2.0		3.1		CL-ML	8.0 - 24.0	Silty CLAY, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
	2.0 / 2.0		2.5					
12	2.0 / 2.0		0.9					
	2.0 / 2.0		3.1					
	2.0 / 2.0							
16	2.0 / 2.0		2.7					

COMMENTS:

RAMBOLL

SOIL BORING LOG: HP-35

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC	0.9		CL-ML	8.0 - 24.0	Silty CLAY, yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity	
	2.0 / 2.0		1.0					
20	2.0 / 2.0		0.5					
	2.0 / 2.0		2.0					
24	2.0 / 2.0		1.9		SP-SM	24.0 - 30.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
	2.0 / 2.0		1.1					
28	1.0 / 2.0		2.9					
	2.0 / 2.0		3.3		GW-GC	30.0 - 36.5	Well graded GRAVEL with CLAY and SAND, yellowish brown (10YR 5/6), wet, loose	
32	2.0 / 2.0		4.2					
	2.0 / 2.0		3.5					
36	0.5 / 0.5					36.5 - 36.5	Bedrock (SHALE)	
							EOB at 36.5 ft	
40								
44								
48								

COMMENTS:

SOIL BORING LOG: HP-36

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 10.0 ft	START TIME: 12:06 STOP TIME: 12:25
DEPTH TO WATER: Not Measured	DATE(S): 06/19/2024
ELEVATION AT GRADE: 454.47 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
ML SILT

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	3.0 / 4.0	MC	0			0 - 1.0	Asphalt with GRAVEL subgrade (No Recovery)
			6.7		ML	1.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), moist, soft, low-plasticity
4	2.5 / 4.0		4.7		ML	4.0 - 8.0	Clayey SILT, grayish brown (10YR 5/2), moist, medium to stiff, low-plasticity
			4.5				
8	1.0 / 2.0		5.5		SP-SM	8.0 - 10.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist, loose
						10.0 - 10.0	Bedrock (SHALE)
12							EOB at 10.0 ft
16							

COMMENTS:

SOIL BORING LOG: HP-37

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 13.0 ft	START TIME: 08:35 STOP TIME: 09:00
DEPTH TO WATER: Not Measured	DATE(S): 06/19/2024
ELEVATION AT GRADE: 454.38 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

ML SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	4.0 / 4.0	MC	58.9			0 - 1.0	Asphalt with GRAVEL subgrade (No Recovery)
			3.5		ML	1.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), moist, soft, low-plasticity
4	4.0 / 4.0		2.4		CL-ML	4.0 - 10.0	Silty CLAY, yellowish brown (10YR 5/6), moist, stiff, low-plasticity
			0.8				
8	4.0 / 4.0		2.1				
			0.9			10.0 - 13.0	Bedrock (SHALE)
12	1.0 / 1.0						
							EOB at 13.0 ft
16							

COMMENTS:
No survey coordinates

SOIL BORING LOG: HP-38

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 12.0 ft	START TIME: 09:10 STOP TIME: 09:20
DEPTH TO WATER: Not Measured	DATE(S): 06/19/2024 - 08/12/2024
ELEVATION AT GRADE: 454.79 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	2.0 / 4.0	MC	6.1			0 - 1.0	Asphalt with GRAVEL subgrade (No Recovery)
			4.8		ML	1.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), moist, soft, low-plasticity
4	4.0 / 4.0		6.3		CL-ML	4.0 - 8.0	Silty Clay, grayish brown (10YR 5/2), to yellowish brown (10YR 5/6), moist, medium to stiff, low-plasticity
			3.9				
8	4.0 / 4.0		2.6		SP-SM	8.0 - 10.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist, loose
			2.6		ML	10.0 - 12.0	SILT, yellowish brown (10YR 5/8), moist, stiff, non-plastic
12			2.8			12.0 - 12.0	Bedrock (SHALE)
							EOB at 12.0 ft
16							

COMMENTS:

SOIL BORING LOG: HP-39

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 22.0 ft	START TIME: 10:59 STOP TIME: 11:20
DEPTH TO WATER: 13.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 462.27 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 4.0	MC	0.1			0 - 1.0	Asphalt with GRAVEL subgrade (No Recovery)	
						1.0 - 2.0	No Recovery	
			0		CL-ML	2.0 - 8.0	Silty CLAY, grayish brown (10YR 4/2), dry, medium, low-plasticity	
4	4.0 / 4.0		0					
			0					
8	4.0 / 4.0		0		CL-ML	8.0 - 12.0	Silty CLAY with trace GRAVEL, yellowish brown (10YR 5/6), moist, stiff, low-plasticity	
			0					
12	4.0 / 4.0		0		SP-SM	12.0 - 20.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
			0					
16	2.0 / 2.0		0					

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	2.0 / 2.0	MC	0		SP-SM	12.0 - 20.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose	
	2.0 / 2.0							
20	2.0 / 2.0		0			20.0 - 22.0	Bedrock (SHALE)	
			0				EOB at 22.0 ft	
24								
28								
32								
36								
40								
44								
48								

COMMENTS:

SOIL BORING LOG: HP-40

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 17.0 ft	START TIME: 12:26 STOP TIME: 12:40
DEPTH TO WATER: 5.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 459.42 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

SP-SM Poorly Graded SAND with SILT
ML SILT
GW-GC Well Graded GRAVEL with CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	3.0 / 4.0	MC	0		ML	0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), moist, soft, low-plasticity	
4	4.0 / 4.0		0		ML	4.0 - 10.0	Sandy SILT, yellowish brown (10YR 5/6), moist to wet, soft, non-plastic	
8	4.0 / 4.0		0					
			0		SP-SM	10.0 - 12.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), wet, loose	
12	2.0 / 2.0		0		GW-GC	12.0 - 15.0	Well graded GRAVEL with CLAY and SAND, yellowish brown (10YR 5/6), wet, loose	
	2.0 / 2.0		0					
16	1.0 / 1.0		0			15.0 - 17.0	Bedrock (SHALE)	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	1.0 / 1.0	MC				15.0 - 17.0	Bedrock (SHALE)	
							EOB at 17.0 ft	

20
24
28
32
36
40
44
48

COMMENTS:

SOIL BORING LOG: HP-41

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Walker Hill Environmental, Inc.	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY: Gabrielle Penaflor
TOTAL DEPTH: 15.0 ft	START TIME: 12:51 STOP TIME: 13:15
DEPTH TO WATER: 4.0 ft	DATE(S): 06/18/2024
ELEVATION AT GRADE: 459.08 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

ML SILT
CL-ML SILTY CLAY
GW-GC Well Graded GRAVEL with CLAY
GW-GM Well Graded GRAVEL with SAND

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WATER LEVEL
	4.0 / 4.0	MC	0		ML	0 - 1.0	SILT with trace roots and grass, dark grayish brown (10YR 4/2), dry, soft, non-plastic	
			0		GW-GM	1.0 - 3.0	Sandy GRAVEL, yellowish brown (10YR 5/6), moist, loose	
					ML	3.0 - 4.0	Clayey SILT, grayish brown (10YR 5/2), moist, medium, low-plasticity	
4	4.0 / 4.0		0		CL-ML	4.0 - 12.0	Silty CLAY, grayish brown (10YR 5/2) to yellowish brown (10YR 5/6), wet, medium, low-plasticity	
			0					
8	4.0 / 4.0		0					
			0					
12	3.0 / 3.0		0		GW-GC	12.0 - 15.0	Well graded GRAVEL with CLAY and SAND, yellowish brown (10YR 5/6), wet, loose	
			0					
						15.0 - 15.0	Bedrock (SHALE)	
16							EOB at 15.0 ft	

COMMENTS:

SOIL BORING LOG: HP-50

DRILLING CONTRACTOR: Redox Tech, LLC.	PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
DRILLER: Redox Tech, LLC	PROJECT NUMBER: 1940108230, 1940108800
RIG: Geoprobe DPT	LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
DRILLING METHOD: Direct Push	AREA:
BOREHOLE DIAMETER: 2.00 in	LOGGED BY:
TOTAL DEPTH: 38.0 ft	START TIME: 17:00 STOP TIME: 10:00
DEPTH TO WATER: Not Measured	DATE(S): 08/05/2024 - 08/06/2024
ELEVATION AT GRADE: 484.61 ft	BACKFILLED WITH: Granular Bentonite Seal
NOTE:	

USCS CODE:

- None
GP-GC Poorly Graded Gravel with CLAY
CL-ML SILTY CLAY

LEGEND:

EOB End of Boring
MC Macrocore

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
	3.0 / 4.0	MC	0		-	0 - 0.5	NO RECOVERY (Asphalt)
					CL-ML	0.5 - 8.0	SILTY CLAY, grayish brown (10YR 5/2) with reddish brown (5YR 5/4) mottling, moist, stiff, low-plasticity
4	3.0 / 4.0		0				
8	4.0 / 4.0		0		CL-ML	8.0 - 23.0	SILTY CLAY, yellowish brown (10 YR 5/8), moist, stiff, low-plasticity
12	4.3 / 4.0		0				
16	4.3 / 4.0						

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION
20	4.3 / 4.0	MC	0		CL-ML	8.0 - 23.0	SILTY CLAY, yellowish brown (10 YR 5/8), moist, stiff, low-plasticity
	4.3 / 4.0		0				
24	4.3 / 4.0		0		CL-ML	23.0 - 31.5	SILTY CLAY, yellowish brown (10YR 5/8), moist, very stiff, low plasticity
28	2.0 / 2.0		0				
	3.0 / 3.0		0				
32			0		GP-GC	31.5 - 33.0	Poorly-graded GRAVEL and SAND and CLAY, yellowish brown (10YR 5/8), moist, loose
					-	33.0 - 38.0	NO RECOVERY (Blind Drill)
36							
					-	38.0 - 38.0	Bedrock (Shale)
							EOB at 38.0 ft
40							
44							
48							

COMMENTS:

MONITORING WELL LOG: MW-207

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 16.0 ft
DEPTH TO WATER: Not Measured
ELEVATION AT GRADE: 458.16 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 07:30 STOP TIME: 08:15
DATE(S): 07/17/2024

USCS CODE:
SP-SC Poorly Graded SAND with CLAY
SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Chip Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION
	3.5 / 4.0	MC	0		ML	0 - 0.5	SILT with trace roots and grass, dark grayish brown (10YR 4/2), moist, soft, non-plastic	
			0		CL-ML	0.5 - 3.5	Silty CLAY, yellowish brown (10YR 5/6), moist, soft, low-plasticity	
4	1.5 / 4.0		0		SP-SC	3.5 - 4.0	Poorly-graded SAND with CLAY, grayish brown (10YR 5/2), moist, loose	
			0			4.0 - 6.5	NO RECOVERY	
			0		SP-SM	6.5 - 16.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/6), moist, medium dense	
8	3.5 / 4.0		0					
			0					
12	3.5 / 4.0		0					
			0					
16						16.0 - 16.0	Bedrock (Shale)	
							EOB at 16.0 ft	

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION
			0					
20								
24								
28								
32								
36								
40								
44								
48								

COMMENTS:

MONITORING WELL LOG: MW-208

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 32.0 ft
DEPTH TO WATER: 20.0 ft
ELEVATION AT GRADE: 482.74 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 11:00 STOP TIME: 12:55
DATE(S): 07/16/2024

USCS CODE:
SP-SC Poorly Graded SAND with CLAY
CL-ML SILTY CLAY

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Pellet Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC				0 - 20.0	Blind drill to 20 feet		

4
8
12
16

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC				0 - 20.0	Blind drill to 20 feet		
20	2.0 / 2.0		0		CL-ML	20.0 - 24.0	Silty CLAY, grayish brown (10YR 5/2), wet, medium, low-plasticity		
	2.0 / 2.0								
24	2.0 / 2.0		0		SP-SC	24.0 - 27.0	Poorly-graded SAND with CLAY, light gray (10YR 7/1), wet, medium dense		
	2.0 / 2.0		0						
28	2.0 / 2.0		0		SP-SC	27.0 - 32.0	Poorly-graded SAND with CLAY, yellowish brown (10YR 5/6), wet, loose		
	2.0 / 2.0		0						
32			0			32.0 - 32.0	Bedrock (Shale) EOB at 32.0 ft		
36									
40									
44									
48									

COMMENTS:

MONITORING WELL LOG: MW-209

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 35.0 ft
DEPTH TO WATER: 24.0 ft
ELEVATION AT GRADE: 481.64 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 14:55 STOP TIME: 16:45
DATE(S): 06/26/2024

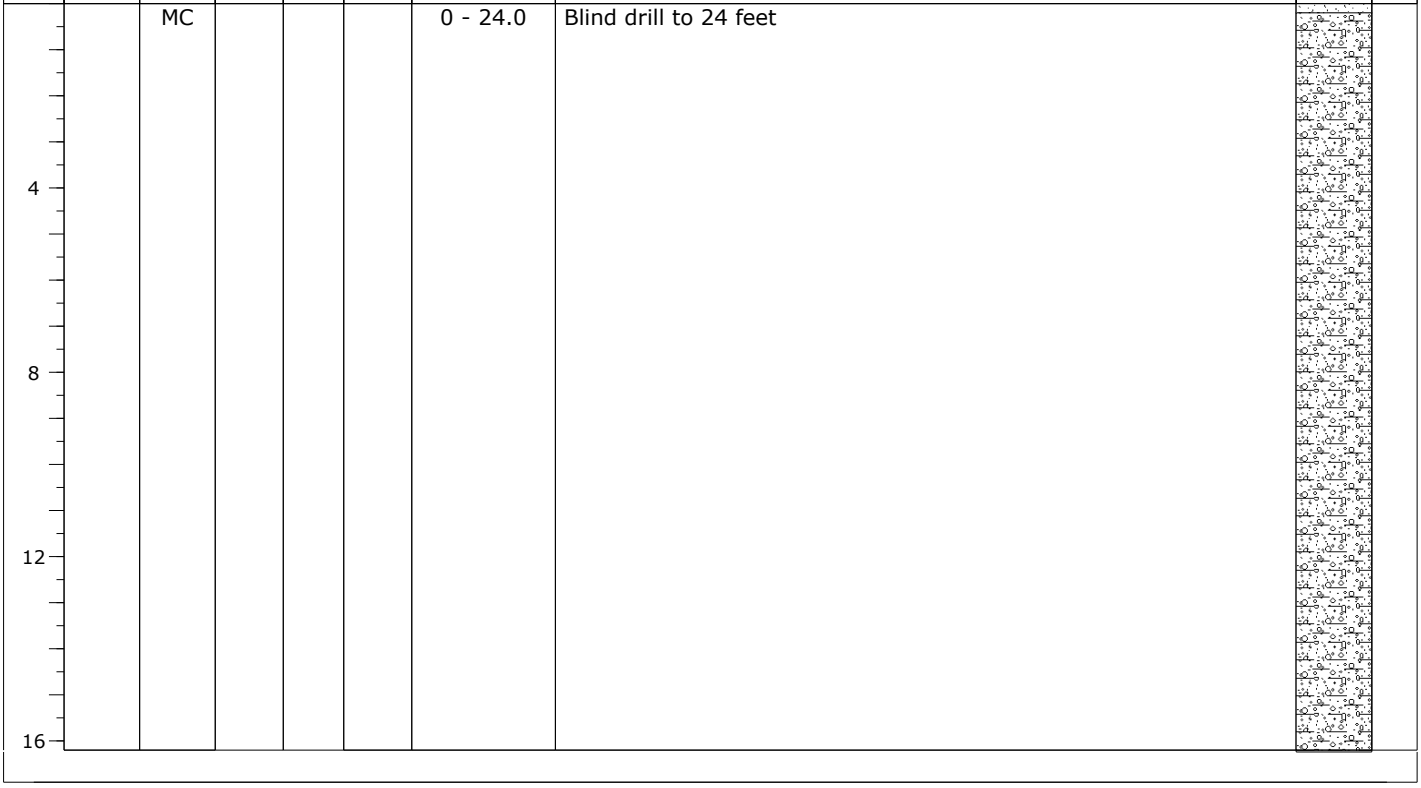
USCS CODE:
SP-SM Poorly Graded SAND with SILT
GW-GC Well Graded GRAVEL with CLAY

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Pellet Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC				0 - 24.0	Blind drill to 24 feet		



COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC				0 - 24.0	Blind drill to 24 feet		
24	1.5 / 2.0		0.6		SP-SM	24.0 - 30.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/6), wet, loose		
	1.75 / 2.0		0.8						
28	1.75 / 2.0		1.2						
	1.5 / 2.0		0.7		GW-GC	30.0 - 35.0	Well graded GRAVEL with CLAY and SAND, yellowish brown (10YR 5/6), wet, loose		
32	1.5 / 2.0		0.7						
	1.0 / 1.0		0.9						
						35.0 - 35.0	Bedrock (SHALE)		
36							EOB at 35.0 ft		

COMMENTS:

MONITORING WELL LOG: MW-210

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 27.0 ft
DEPTH TO WATER: 20.0 ft
ELEVATION AT GRADE: 472.04 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: STOP TIME: 07:50
DATE(S): 06/25/2024

USCS CODE:
SP-SM Poorly Graded SAND with SILT
SM SILTY SAND

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Chip Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC			0 - 16.0	Blind drill to 16 feet		
16					16.0 - 19.0	Silty SAND, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist, medium dense		

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
	2.0 / 2.0	MC		SM	16.0 - 19.0	Silty SAND, grayish brown (10YR 4/2) to yellowish brown (10YR 5/6), moist, medium dense		
	2.0 / 2.0							
20				SP-SM	19.0 - 27.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose		
	1.9 / 2.0							
	1.9 / 2.0							
24	2.0 / 2.0							
	1.0 / 1.0							
					27.0 - 27.0	Bedrock (SHALE)		
28						EOB at 27.0 ft		
32								
36								
40								
44								
48								

COMMENTS:

MONITORING WELL LOG: MW-211

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 26.5 ft
DEPTH TO WATER: 19.5 ft
ELEVATION AT GRADE: 471.16 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 10:30 STOP TIME: 11:20
DATE(S): 06/25/2024

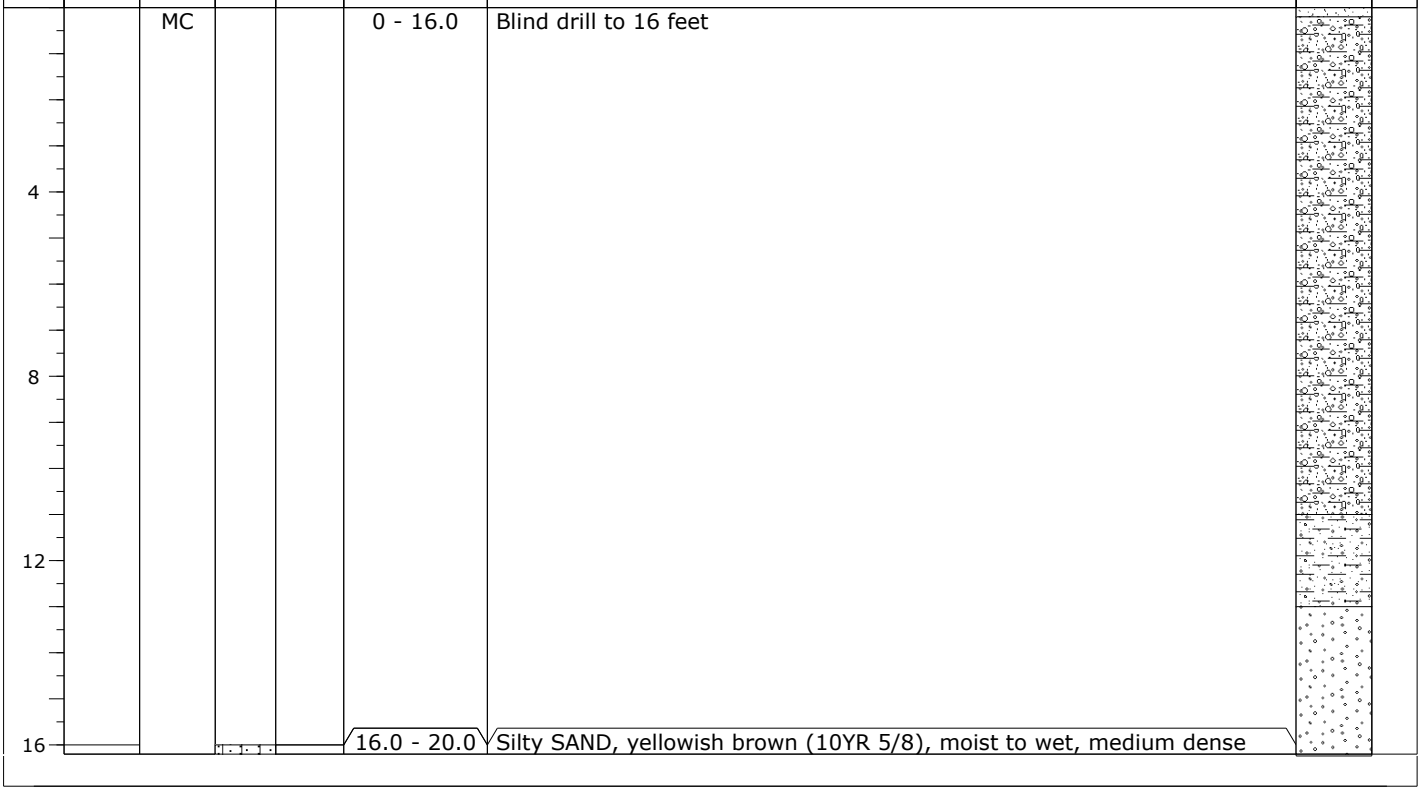
USCS CODE:
SP-SM Poorly Graded SAND with SILT

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Pellet Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
		MC			0 - 16.0	Blind drill to 16 feet		
16					16.0 - 20.0	Silty SAND, yellowish brown (10YR 5/8), moist to wet, medium dense		



COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
	2.0 / 2.0	MC		SP-SM	16.0 - 20.0	Silty SAND, yellowish brown (10YR 5/8), moist to wet, medium dense		
	2.0 / 2.0							
20	1.5 / 2.0			SP-SM	20.0 - 26.5	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), wet, loose		
	1.5 / 2.0							
24	2.5 / 2.5							
					26.5 - 26.5	Bedrock (SHALE)		
						EOB at 26.5 ft		
28								
32								
36								
40								
44								
48								

COMMENTS:

MONITORING WELL LOG: MW-212

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 4.25 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 25.0 ft
DEPTH TO WATER: 21.0 ft
ELEVATION AT GRADE: 468.32 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 07:45 STOP TIME: 08:30
DATE(S): 07/16/2024

USCS CODE:
SP Poorly Graded SAND
SP-SC Poorly Graded SAND with CLAY
ML SILT
CL-ML SILTY CLAY

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Chip Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
	3.5 / 4.0	MC	0		ML	0 - 1.5	SILT with trace roots and grass, dark grayish brown (10YR 4/2), moist, soft, non-plastic		
			0		CL-ML	1.5 - 14.0	Silty CLAY with tracel GRAVEL, yellowish brown (10YR 5/6), moist, stiff, low-plasticity		
4	4.0 / 4.0		0						
			0						
8	4.0 / 4.0		0						
			0						
12	3.5 / 4.0		0						
			0		SP-SC	14.0 - 17.0	Poorly-graded SAND with CLAY, grayish brown (10YR 5/2) with yellowish brown (10YR 5/6) staining, moist, medium dense		
16	2.0 / 2.0								

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
	2.0 / 2.0	MC	0		SP-SC	14.0 - 17.0	Poorly-graded SAND with CLAY, grayish brown (10YR 5/2) with yellowish brown (10YR 5/6) staining, moist, medium dense		
	2.0 / 2.0		0		SP	17.0 - 21.0	Poorly-graded SAND with GRAVEL, yellowish brown (10YR 5/6), moist, loose		
20	1.75 / 2.0		0						
	1.75 / 2.0		0		ML	21.0 - 24.0	SILT, yellowish brown (10YR 5/8), moist to wet, stiff, non-plastic		
24			0			24.0 - 24.0	Bedrock (SHALE)		
							EOB at 25.0 ft		
28									
32									
36									
40									
44									
48									

COMMENTS:

MONITORING WELL LOG: MW-213

DRILLING CONTRACTOR: Walker Hill Environmental, Inc.
DRILLER: Walker Hill Environmental, Inc.
RIG: Geoprobe DPT
DRILLING METHOD: Direct Push
BOREHOLE DIAMETER: 2.00 in WELL DIAMETER: 2.00 in
TOTAL DEPTH: 40.0 ft
DEPTH TO WATER: 28.0 ft
ELEVATION AT GRADE: 482.99 ft
NOTE:

PROJECT NAME: Whirlpool: 2024 - Fort Smith, AR
PROJECT NUMBER: 1940108230, 1940108800
LOCATION: 6400 Jenny Lind Rd, Ft. Smith, AR
AREA:
LOGGED BY: Matthew Barley
START TIME: 09:00 STOP TIME: 14:30
DATE(S): 09/23/2024

USCS CODE:
CL Lean CLAY
SP-SM Poorly Graded SAND with SILT
ML SILT
CL-ML SILTY CLAY

LEGEND:
EOB End of Boring
MC Macrocore

BACKFILL:
Bentonite Chip Seal
Cement/Bentonite Seal
Concrete
Filter Pack (20/40 Sand)

WELL CONSTRUCTION:
Riser Pipe
Screened Pipe
Flush Mounted Vault

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
	2.5 / 4.0	MC	0.6			0 - 1.5	Asphalt with Gravel subbase (No Recovery)		
			3.8		ML	1.5 - 5.0	SILT, grayish brown (10YR 5/2), dry, soft, non-plastic		
4	4.0 / 4.0		2.1						
			2.6		CL-ML	5.0 - 12.0	SILTY CLAY with trace GRAVEL, light gray (10YR 7/1) with yellowish brown (10YR 5/6) staining, moist, medium to stiff, low-plasticity		
8	4.0 / 4.0		3.0						
			3.0						
12	2.0 / 2.0		2.1		CL-ML	12.0 - 24.0	SILTY CLAY, yellowish brown (10YR 5/6), moist, stiff, low-plasticity		
	2.0 / 2.0		1.2						
16	1.6 / 2.0								

COMMENTS:

DEPTH (ft)	RECOVERY (ft/ft)	SAMPLER TYPE	PID (ppm)	GRAPHIC LOG	USCS CODE	DEPTH INTERVAL (ft)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	WATER LEVEL
20	1.6 / 2.0	MC	1.8		CL-ML	12.0 - 24.0	SILTY CLAY, yellowish brown (10YR 5/6), moist, stiff, low-plasticity		
	2.0 / 2.0		2.5						
	2.0 / 2.0		1.6						
	2.0 / 2.0		1.6						
24	1.0 / 1.0		2.5		CL	24.0 - 30.5	SANDY CLAY with trace GRAVEL, grayish brown (10YR 5/2) with yellowish brown (10YR 5/6) staining, moist to wet, medium, low-plasticity		
	1.0 / 1.0		3.1						
	1.0 / 1.0								
28	1.0 / 1.0		2.5						
	1.0 / 1.0								
	1.0 / 1.0		2.8						
	1.0 / 1.0				SP-SM	30.5 - 39.0	Poorly-graded SAND with SILT and GRAVEL, yellowish brown (10YR 5/8), moist to wet, loose		
32	1.0 / 1.0		2.5						
	1.0 / 1.0								
	1.0 / 1.0		2.2						
	1.0 / 1.0								
36	0.6 / 1.0		3.1						
	0.8 / 1.0								
	1.0 / 1.0		3.1						
	0.8 / 1.0				ML	39.0 - 39.5	SILT, yellowish brown (10YR 5/8), dry, very stiff, nonplastic		
40	0.9 / 1.0		1.3			39.5 - 40.0	Bedrock (SHALE)		
	1.0 / 1.0						EOB at 40.0 ft		
44									
48									

COMMENTS: