



August 4, 2022

Max J. Luick
Project Manager
Bureau of Remediation and Waste Management
Maine Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017

RE: 2021 Annual Operations Report
Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine

Dear Mr. Luick,

Enclosed for your records is the 2021 Annual Operations Report for the Former Hamblet & Hayes Site located at 55 Crowley Road in Lewiston, Maine. This report was prepared on behalf of BASF Corporation (BASF) by Groundwater & Environmental Services, Inc. (GES). An updated Conceptual Site Model is detailed in Section 3.0 along with the 2021 monitoring results. The 2022 proposed groundwater and surface water sampling program and deep aquifer assessment monitoring program which are in line with previous years, are provided in Section 4.0. Upon submittal of this report, BASF and GES have executed the first tri-annual deep aquifer sampling event concurrent with the initial semi-annual compliance monitoring event in May 2022, and scheduled to complete the second tri-annual deep aquifer sampling event before the end of August 2022. The next sampling event is the combined deep aquifer assessment and semi-annual compliance sampling event planned for November 2022.

If you have any questions, please contact Brian Horan by phone at (800) 221-6119, extension 3241 or by email at bhoran@gesonline.com.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

A handwritten signature in blue ink that reads "Brian J. Horan". The signature is fluid and cursive, with a large, stylized initial 'B'.

Brian Horan
Principal Environmental Scientist

Enclosures

cc: Joseph Guarnaccia, BASF Corporation
Donald Podsen, Brown and Caldwell

BASF Corporation

2021 Annual Operations Report

Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine
PSID #876490

August 2022





2021 Annual Operations Report
Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine

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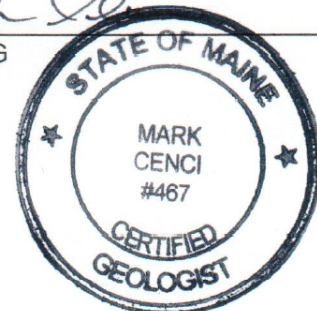




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1 Introduction

On behalf of BASF Corporation (BASF), Groundwater & Environmental Services, Inc. (GES) prepared this 2021 Annual Operations Report for the Former Hamblet & Hayes Site (hereafter referred to as “the Site”) located at 55 Crowley Road in Lewiston, Maine. The purpose for this report is as follows:

- Provide data and findings for site activities conducted in 2021 to meet the requirements of the amended Compliance Order by Consent dated March 2012 (Compliance Order) between the Maine Department of Environmental Protection (MEDEP) and BASF.
- Verify process based conceptual site model (CSM)
- Characterize impact to receptors
- Provide the status for remedial action, with the intent to accelerate groundwater restoration specifically as it affects surface water and the deep aquifer groundwater.

This report summarizes assessment activities performed at the Site for the 2021 operational year including the following:

- Scheduled environmental sampling activities and analysis that include:
 - Water levels from wells and stream gauges with hydrogeological interpretation.
 - Groundwater and surface water quality with contaminants of concern (COC) nature and extent interpretation.
 - An evaluation of groundwater quality trends after idling the shallow groundwater pump and treat system.
 - An evaluation of groundwater quality trends after idling the deep aquifer groundwater extraction well EW-501.
- A proposed schedule for the ongoing investigation and site monitoring activities.

1.1 Site Description

The Site is located at 55 Crowley Road in Lewiston, Androscoggin County, Maine. A Site Location Map is provided as **Figure 1**. For purposes of the ongoing investigation, the Site is defined as the area impacted by the historical industrial operations (chemical storage and handling). In total, the Site is comprised of seven unoccupied parcels. The Site and property boundaries are shown on the Local Area Map provided as **Figure 2**.

The Site is currently vacant with no occupied buildings or structures. The property was previously occupied by a 23,400 square foot (sf) truck-loading warehouse and office building (former warehouse building), a 1,200 sf building previously used to store flammable materials (identified as a former flammable materials storage building [FFMSB]), and a 1,440 sf metal drum storage building and truck garage. A Site Map depicting these general areas is provided as **Figure 3**. The surface concrete slabs associated with the former warehouse and storage buildings remain at the Site while the structures have been removed.



The Site is accessible by a locked gate at the main entrance along Crowley Road. A paved access road leads from Crowley Road to the former buildings and a parking area west of the former warehouse building location. Most of the remaining portions of the Site are unpaved. A railroad right-of-way and associated abandoned railroad bed are located along the southern boundary of the previously developed portion of the Site.

The Site elevation in the area of the former warehouse is approximately 190 feet above mean sea level (MSL) and slopes downward to the southwest (towards No Name Brook). Higher terrain is located beyond the Site to the northeast and southeast. The topography of the Site and vicinity are displayed on the Site Map (**Figure 3**).

1.2 Site History

Remedial investigation activities have been conducted at the Site on a regular basis since the late 1980s. The Site is currently regulated by the MEDEP through a 1997 Consent Order (Amended in 2012). BASF Corporation is the responsible party through its acquisition of Ciba Specialty Chemicals in 2010. Annual reports document the monitoring and assessment activities and are available for review.

Chemicals were reportedly stored on Site in several areas including: the former buildings; eight former underground storage tanks (USTs) and in two former above-ground storage tanks (ASTs). These USTs and ASTs have been removed from the Site. Detailed descriptions of source areas can be found in the Updated Conceptual Site Model and 2021 Monitoring Results section of this report (**Section 3.3**).

1.3 Receptor Evaluation and Risk Assessment

The potential receptors for Site-related impacts are characterized as follows:

1. Potential human receptors: Direct contact to COC-impacted groundwater and soils.
2. Potential human receptors: Vapor intrusion into occupied buildings.
3. Potential human and ecological receptors: Shallow groundwater discharge to surface water (No Name Brook).
4. Potential human receptors: Shallow groundwater discharge to the deep aquifer and subsequent transport to a water supply.

Relative to addressing groundwater-related receptors, in 1996 a groundwater extraction and treatment system was installed to control dissolved phase mass flux from these shallow source areas. However, in 2011 the shallow system was idled and in 2014 the deep system was idled based on feasibility and benefit considerations (see **Sections 3.6** and **3.8**).

In 2012 a Human Health Risk Assessment (HHRA) and Ecological Receptor Analysis (ERA) were completed for the Site (included in the 2012 Annual Report as Appendix J). The HHRA concluded that potential adverse human health risks are limited to the hypothetical indoor worker in possible future occupied on-site buildings (due to vapor intrusion). This would only be considered a risk in the absence of any vapor intrusion mitigation controls. Potential adverse human health risks are considered present for the hypothetical construction worker, driven by PCE (and to a lesser extent TCE) in shallow groundwater via the dermal contact pathway. Current residential receptor scenarios are not valid on Site, because the Site is currently zoned for industrial use and is



unoccupied. Potential future on-site residential scenarios are also not considered valid as land use restrictions will be implemented for the Site that will prohibit future residential use.

The 2012 ERA repeated a benthic macroinvertebrate study conducted by Ciba in 1991. Both studies concluded that benthic organisms are not adversely affected by the discharge of impacted groundwater through the hyporheic zone (groundwater / surface water interface).

The receptor pathways driving investigations at the Site, identified in the ongoing conceptual site model updates provided in the 2012 through 2020 Annual Operations Reports, include Site-related contaminants dissolved in the groundwater discharging to No Name Brook and infiltrating to the sand and gravel deep aquifer. An Updated Conceptual Site Model that incorporates the 2021 monitoring data results is provided in **Section 3.0** of this report.

2 Summary of 2021 Site Activities

2.1 Groundwater & Surface Water Monitoring and Sampling

Scheduled groundwater gauging, sampling, and analysis at selected monitoring wells, the idled recovery/extraction wells and piezometers, was conducted in the deep aquifer on a tri-annual basis (May, July, November 2021) and in the shallow water-bearing unit on a semi-annual basis (May and November 2021). Annual surface water sampling of No Name Brook was conducted in November 2021.

Appendix A contains the field-produced Low-Flow Sample Data Sheets for each of the 2021 sampling events. SGS analyzed all collected groundwater samples (May, July, and November 2021). **Appendix B** contains the groundwater and surface water laboratory analytical reports for the 2021 sampling events. Additionally, in accordance with MEDEP requirements, GES submitted the data to the MEDEP in electronic data deliverable (EDD) format for upload to their Environmental and Geographical Analysis Database (EGAD).

3 Updated Conceptual Site Model and 2021 Monitoring Results

3.1 Surface Water: No Name Brook

Natural surface water drainage at the Site generally flows west from the higher topographic areas on the east and southeast side of the Site to the low-lying area of No Name Brook. However, local surface water flow is influenced by current topography with a dominant controlling feature being the higher relative elevation of the former railroad bed. The inactive railroad runs southeast to northwest and north through the Site creating the adjacent low-lying drainage areas.








No Name Brook abuts to the east the Site properties owned by BASF and flows to the southeast towards the Sabattus River. No Name Brook is the only surface water feature in the vicinity of the Site that supports continuous year-round flow (i.e., a perennial stream). No Name Brook, the associated low-lying drainage areas, and the corresponding 100-year floodplain identified by the Federal Emergency Management Agency (FEMA) flood insurance rate maps (FIRM, 1979) are depicted on **Figure 2**. The brook exhibits significant lateral meander wandering. The floodplain associated with No Name Brook ranges in width from less than 100 feet at the Crowley Road Bridge to over 400 feet in width downstream of the Site.



The hydrology of the stream is affected by trends in precipitation and potential effects from beaver damming activity as initially documented at the site in 2015, which tends to impede flow, thus backing up water and increasing the stream stage upstream of the dam. This phenomenon has the potential to alter groundwater to surface water interaction through changes in hydraulic gradient. Because beaver activity is a natural condition for this watershed and because it has the potential to affect contaminant transport hydrology, stream stage gauging began at the Site in March 2018 at a point atop the Crowley Road Bridge (i.e. “Bridge”). Two steel drive-point stream gauges (NNB-02 and NNB-03) were also installed in the brook in the spring of 2019; however, during the May 2020 sampling event, both stream gauges were missing and likely taken down by moving ice. These stream gauges were not replaced due to the logistics and inability to remain in-tact during freezing conditions of the brook.

Inset Table 1 on the following page compares the surface water elevation at Crowley Road Bridge to groundwater elevations collected from monitoring wells/piezometers in close proximity along the banks of the brook in May and November 2021.

Inset Table 1 - Surface Water & Groundwater Hydraulic Head Comparison

Date	Groundwater Elevation along West Bank Elevation (difference from brook in feet)	Surface Water Elevation (feet)	Groundwater Elevation along East Bank Elevation (difference from brook in feet)
Station:	PZ-23	Bridge⁽¹⁾	PZ-21
	West bank ~160 feet from bridge	Center of brook	East bank ~60 feet from bridge
5/3/21	185.50 (+2.79') 	182.71 <i>Gaining</i>	185.40 (+2.69') 
11/1/21	185.84 (+2.67) 	183.17 <i>gaining</i>	185.91 (+2.74) 
Station:	MW-206B	Bridge⁽¹⁾	PZ-20
	West bank ~400 feet from bridge	Center of brook	East bank ~400 feet from bridge
5/3/21	184.26 (+1.55') 	182.71 <i>gaining</i>	185.62 (+2.91) 
11/1/21	Not measured	183.17 <i>gaining</i>	184.82 (+1.65) 

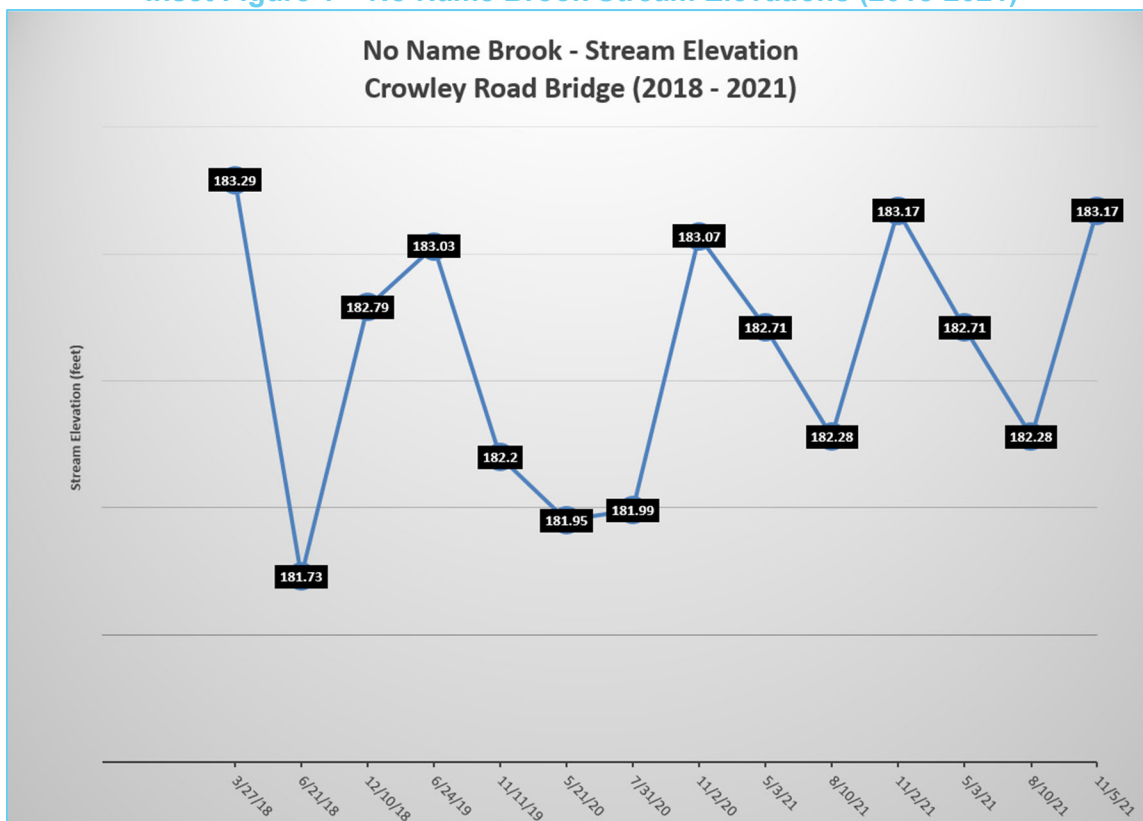
Blue Arrows signify groundwater flow gradients from data collected along the banks toward the brook.
 (1) Stream gauging station established at the center of No Name Brook atop Crowley Road Bridge in March 2018.

The groundwater elevations from both banks of the brook remain higher (1.55 feet to 2.91 feet in 2021) than the surface water elevations obtained at the Crowley Road Bridge located upstream and topographically upgradient of the selected monitoring points (see **Figure 3** for topography). This is consistent with historical data collected since March 2018 and findings of the comprehensive groundwater to surface water interaction study completed in 2013, affirming the

identification of No Name Brook as a gaining stream serving as a local hydrologic divide and site-related groundwater discharge point.

Since the establishment of the stream gauging station at Crowley Road Bridge in March 2018, the following surface water elevations obtained during sampling events are plotted in inset Figure 1 below to better define the hydrology of No Name Brook.

Inset Figure 1 – No Name Brook Stream Elevations (2018-2021)



Inset Figure 1 - Surface water elevations (feet) of No Name Brook as measured at the gauging station established in March 2018 and surveyed into the existing monitoring well elevation datum from a fixed point on the Crowley Rd Bridge.

The recent stage data are quantitatively consistent with that collected during earlier remedial investigation (RI) activities (1991 to 1998), with a range between 183.5 and 181.5, and an average 182.5. Stream gauge monitoring will continue as part of ongoing compliance sampling activities.

Surface water samples were collected from five sampling stations located within No Name Brook (SW-1, PZNNBSW-14A, SW-5, PZNNBSW-11A, and SW-7). Chlorinated volatile organic compounds (cVOCs) were not detected in surface water samples collected in 2021, with the exception of very low levels of PCE (2.1 µg/L) and TCE (1.4 µg/L) in surface water sample SW-5 at concentrations below MEDEP Chapter 584 Water and Organism Standards and located downgradient of the former warehouse (**Figure 3**).

The detections of these daughter cVOCs at low concentrations is consistent with historical trends showing sporadic low-level detections at SW-5 and other surface water sampling locations in the immediate vicinity (i.e., PZNNBSW-11A and SW-7). Though consistently low, samples



periodically exceed applicable MEDEP Chapter 584 Standards. These surface water detections support the conceptual model that contaminated groundwater is discharging to surface water.

The 2021 surface water analytical results are summarized in **Table 1**, and laboratory analytical reports are included in **Appendix B**.

3.2 Hydrologic Conditions

Regarding subsurface hydrology, there are two distinct regimes that are primarily classified as to whether the groundwater resource is under the hydraulic influence of the stream:

1. A shallow water bearing unit that is unconfined and under the control of the brook which is the discharge point for site-related shallow groundwater. It is referred to as a water-bearing unit because it does not readily supply water, as evidenced by boring logs (predominately silt and clayey silt) and poor well yields associated with the now idled groundwater capture system (EW-series wells).
2. A deep aquifer composed of sand and gravel that is hydraulically separated from the shallow water bearing unit and the brook's influence by clay and silt layers (aquitarde). As discussed in detail below, while the deep aquifer is confined over much of the Site, the 2018 Annual Operations Report presented investigation data that indicated a 'window' between the shallow and the deep aquifer in the unweathered clay confining unit.

3.3 Source Areas & Contaminants of Concern

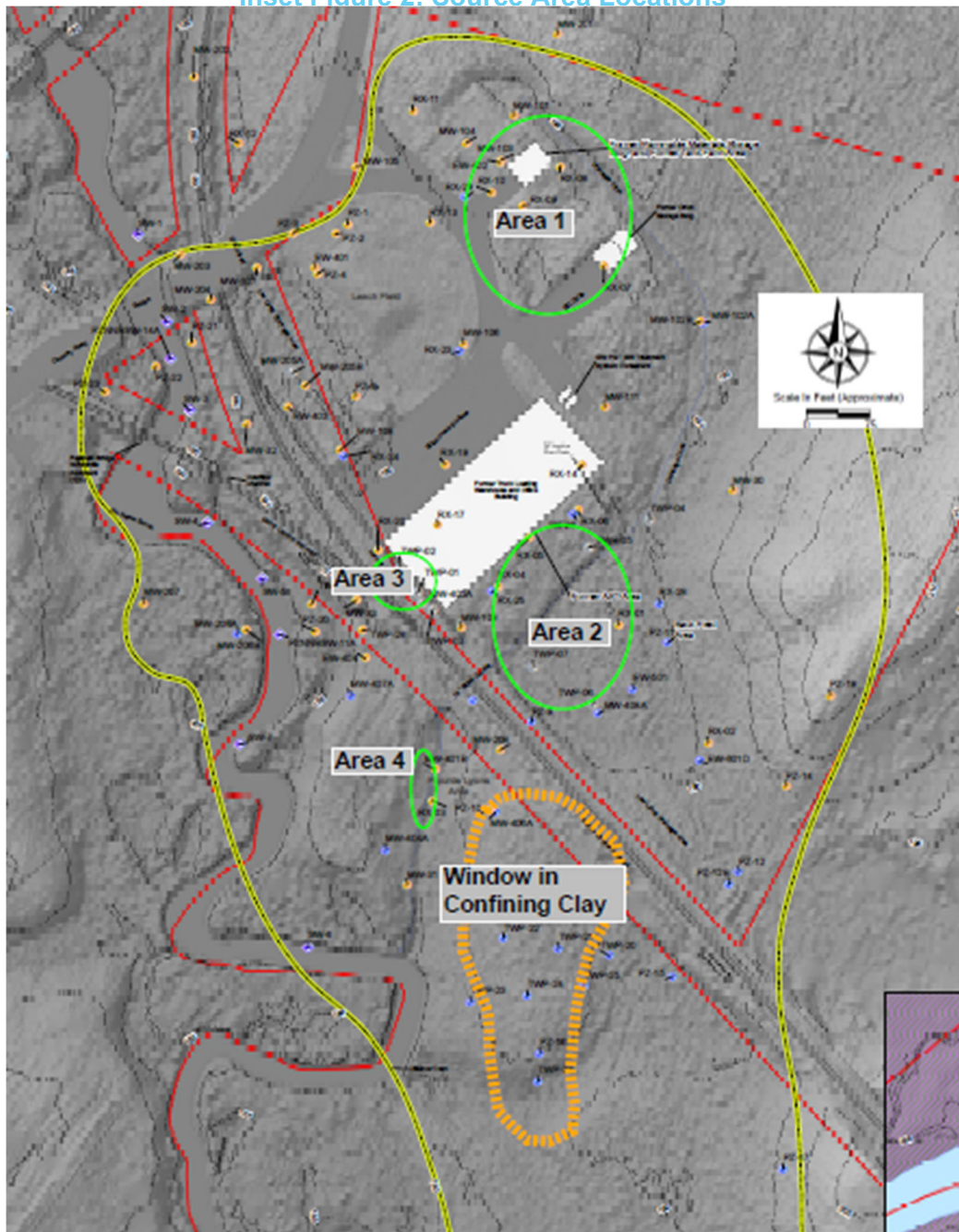
The current three primary areas where residual VOCs continue to act as a source to groundwater impacts are shown as Areas 1, 2, and 3 in inset Figure 2 below.

The COCs in these areas have slowly diffused into the unconsolidated overburden silty/sandy material where very low conductivity is evident. A fourth area (Area 4 in the inset Figure 1) is known to have resident source mass, however it does not appear to have a significant impact on shallow groundwater quality as the residual mass is sequestered in clay.

The contaminants of concern (COCs) include the following volatile organic compounds:

- cVOCs (in the shallow water bearing zone and deep aquifer)
 - Tetrachloroethene (PCE) and its degradation compounds (all source areas)
 - trichloroethene (TCE)
 - cis-1,2-dichloroethene (cis-1,2-DCE)
 - vinyl chloride (VC)
 - 1,1,1-Tetrachloroethane (1,1,1-TCA) (Area 1 & Area 2)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) in the shallow water bearing zone (Area 1)
- 1,4-dioxane (1,4-D) is also present in the shallow water bearing zone, the source of which has been characterized as a stabilizer for 1,1,1-TCA.

Inset Figure 2: Source Area Locations



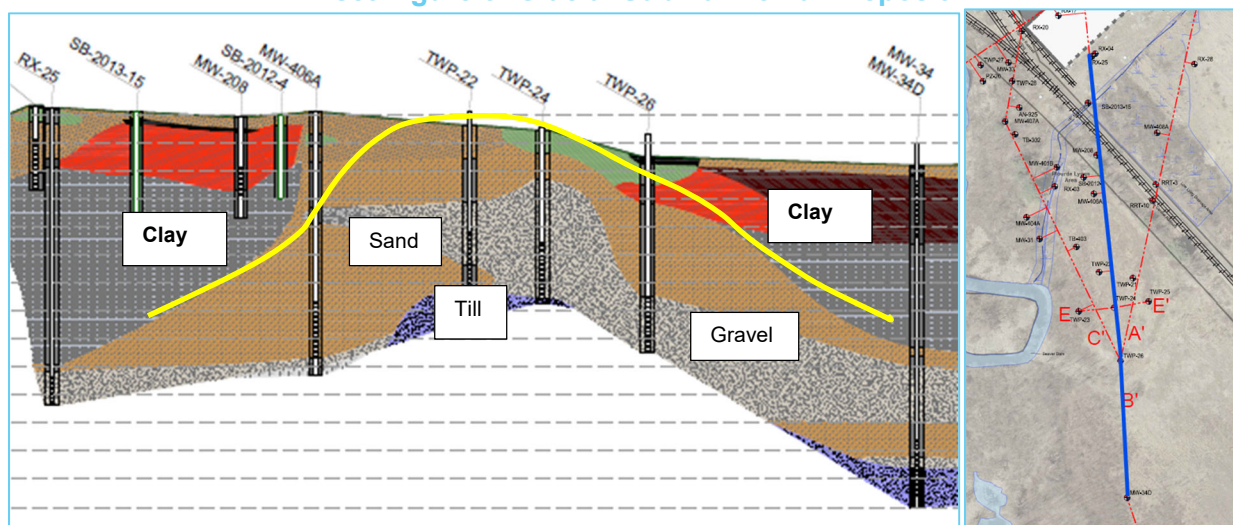
Inset Figure 2 – Known source areas (Areas 1, 2, 3, and 4) depicted in correlation with the characterized 'window' in the confining marine clay defined in the following section.

3.4 Updated Geological Setting

The 2020 Annual Operations Report (GES, August 2021) summarized the spring and fall 2020 investigations in detail. The 2020 data provide enhanced resolution to the geological setting in the area downgradient of the characterized release areas, particularly in the vicinity beyond PZ-16, PZ-17, and PZ-18.

The 2020 data from the area near PZ-16 and the TWP wells establishes an absence of the generally continuous site marine clay unit (MCU); this area is where the sand and gravel glacial submarine fan deposit is identified. The 2020 investigations further define where the MCU thickens to the south toward MW-34/34D and MW35/35D, indicating similar soil lithology beyond the “window” to that upgradient of the “window” and previously characterized. The data delineated in more detail the extent and depth of the site’s unweathered Pleistocene-age Formation MCU (see Inset Figure 3). A dense layer of glacial till was encountered at MW-34D, MW-35D, and MW-36D at depths of 54 feet below grade (fbg), 52.5 fbg and 26.75 fbg, respectively. The glacial till underlying the gravel unit is described as very dense material, consisting primarily of sand and silt, with trace angular gravel and rock fragments. This glacial till is assumed to provide a vertical barrier/limit to any deeper contaminant migration.

Inset Figure 3: Glacial Submarine Fan Deposit



Inset Figure 3 – As identified in previous Annual Operations Reports, MCU pinch out when approaching the PZ-16 and TWP well area. This feature is depicted above by the yellow outline that approximates the upper boundary of the glacial submarine fan deposit (aka, ‘window’) protruding upwards through the marine clay between the areas of RX-25 and MW-34D.

The glacial submarine fan deposit is a significant finding with regard to the contaminant migration pathway from the shallow water bearing zone areas to the deep aquifer; downgradient of the deposit there are deep aquifer concentrations of dissolved PCE and TCE reported (albeit diminishing), which extend south to the property line. The geological deposit of highly transmissive sands and gravels provides an avenue for contaminant mass migration the otherwise intervening clay unit, providing a hydraulic connection between the shallow water bearing unit and the deeper aquifer below.

3.5 Shallow Water-Bearing Zone

Dissolved phase groundwater concentrations directly downgradient and under the source areas are constrained to the shallow aquifer by the well-documented MCU. The dissolved mass (particularly PCE) migrates with the prevailing groundwater gradients either southwest to No Name Brook or south into the Back Field Area (BFA) where dissolved impacts in the shallow water-bearing zone are delineated. The horizontal distribution of dissolved-phase impacts in the shallow water-bearing unit is highly influenced by the interface of the MCU and the presence of



relatively conductive sand lenses within a silty sand unit. No Name Brook acts as a bioactive discharge zone for the shallow groundwater where the degraded daughter compounds are evident. There are no reported concentrations of dissolved-phase chlorinated compounds in monitoring wells located along the opposite / western bank of No Name Brook. Seasonal effects do not significantly influence the flow dynamics, as detailed in the 2020 Annual Report.

Many years of analysis of the geochemical conditions in the shallow aquifer indicate robust anaerobic biodegradation allowing dechlorination of the cVOCs. Evidence of biodegradation and natural attenuation in the shallow water-bearing zone is discussed in detail in the 2019 Annual Report.

As detailed in the updated geological setting in the previous section, the MCU is consistent across the site with the exception of a deposit of granular material at the “window” in the MCU, down-gradient of the source areas which is significant component defining the migration of the dissolved cVOC groundwater impacts at the Site. The data characterizes this area as allowing hydraulic communication between the shallow water-bearing zone and the otherwise confined deep aquifer. This window in the MCU has been the subject of characterization study since 2017 (2018, 2019 and 2020 Annual Reports).

3.5.1 Groundwater Flow - Shallow Water-Bearing Zone 2021

Based on well gauging performed in 2021, the depth to groundwater in the shallow water-bearing unit across the Site ranges from approximately 2 to 7 feet fbg in May 2021 and from approximately 1.5 to 6.5 fbg in November 2021. A summary of the groundwater depth measurements and calculated groundwater elevations for wells gauged in 2021 are provided in **Table 2**.

Gauging data collected from selected monitoring wells in November 2021 was used to assess the groundwater flow characteristics across the Site in both the shallow water bearing unit and deep aquifer. According to the Apple Valley Estates Weather Station (KMELEWIS15) (<https://www.wunderground.com>) located at 1 Macintosh Lane, in Lewiston, Maine, 3.36 inches of precipitation was recorded during the seven days leading up to the scheduled monitoring event (October 25 to November 1, 2021). Approximately 0.10 inches of precipitation was recorded from November 1 through November 5, 2021 during the five-day groundwater-monitoring event.

The groundwater flow direction in the shallow water-bearing unit was determined to be generally south/southwest towards No Name Brook at an average horizontal hydraulic gradient of 0.029 feet/foot (using November 2021 elevation data from RX-05 and PZ-20). This flow direction is consistent with the documented movement of contaminant mass across the Site. Groundwater contours for the shallow water-bearing unit, based on the groundwater gauging data recorded in November 2021, are provided in **Figure 4**. As detailed in previous reports and described by the current data, groundwater flow direction at the Site is influenced by the local topography which slopes toward No Name Brook (unconfined conditions); by the underlying MCU which slopes toward the brook; and by the presence of more conductive sandy lenses generally located just above the MCU. In the vicinity of the former warehouse it is clear that groundwater discharges southwest directly toward No Name Brook. The flow dynamics are not significantly influenced by seasonal effects.

DNAPL was not detected at the bottom of the monitoring wells gauged in 2021, which is consistent with the gauging data since 2013 (**Table 2**). In May 2021, LNAPL was detected on the surface of



the groundwater in well RX-10 (located in Area 1 [Inset Figure 1]) at a thickness of 1.16 feet (~ 13 inches) in May 2021. Thickness could not be visually confirmed with a bailer due to an obstruction in the monitoring well at approximately 2 feet below grade in the well casing limiting the access of equipment. LNAPL was not detected in any other monitoring wells gauged in 2021. The previous documented occurrence of LNAPL at the Site was recorded in monitoring well RX-10 in November 2020 with an approximate thickness of 0.63 feet (7.56 inches).

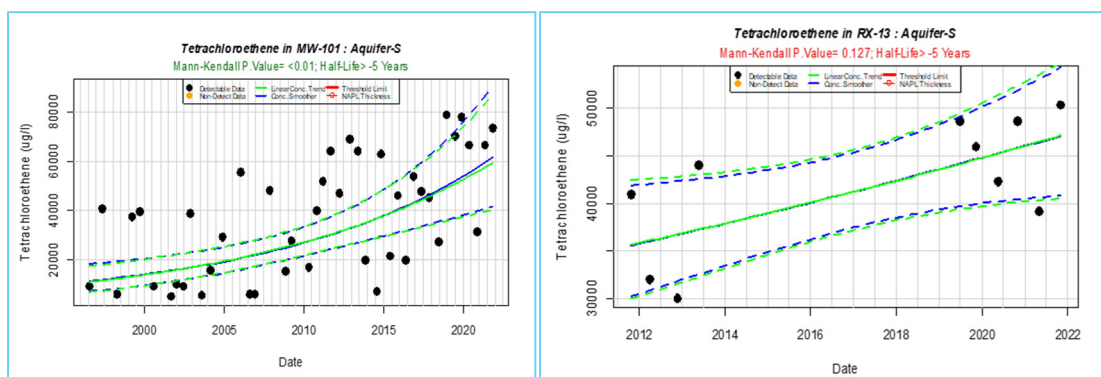
3.5.2 Contaminant Fate and Transport – Shallow Water-Bearing Zone 2021

Iso-concentration maps for the primary dissolved-phase COCs have been developed for the shallow water-bearing zone and are presented as **Figure 5** (PCE, TCE, cis-1,2-DCE, VC), **Figure 6** (1,1,1-TCA), and **Figure 7** (BTEX). The horizontal mass distribution of dissolved-phase contaminants is based on the current known source locations, historical site information, groundwater flow direction, and contaminant concentrations. The 2021 shallow water-bearing zone groundwater analytical results are summarized in **Table 3**.

Groundwater samples collected from sentinel downgradient shallow monitoring wells MW-34 and MW-35, installed as part of 2020 site investigation activities, continue to remain below laboratory detection limits for the contaminants of concern.

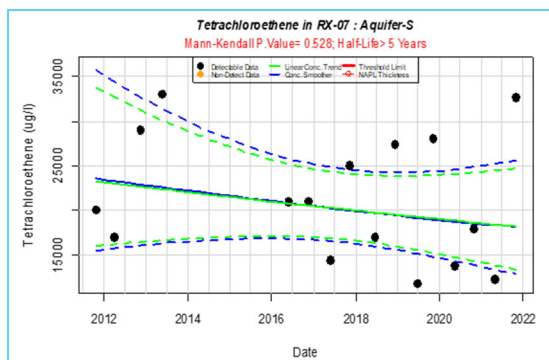
Shallow water-bearing zone concentration trend graphs for PCE, TCE, cis-1,2-DCE, VC, 1,1,1-TCA, Total BTEX and 1,4-D from 1995 through 2021 are presented in **Appendix C**. Specific trends pertaining to the documented NAPL source areas in the shallow water-bearing zone are provided below:

FFMS Building Area – PCE persistence and magnitude at monitoring wells MW-101 and RX-13 are indicative of proximity to source material (see inset plots below) and is consistent with the existing and ongoing conceptual site model for this area of the Site.

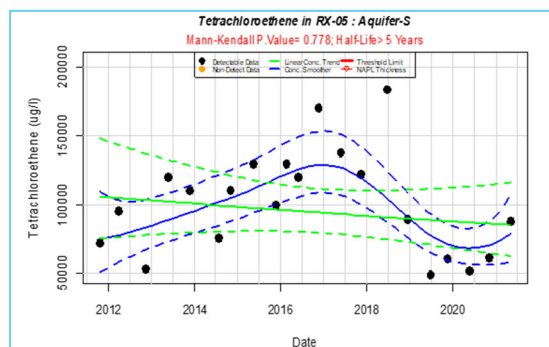




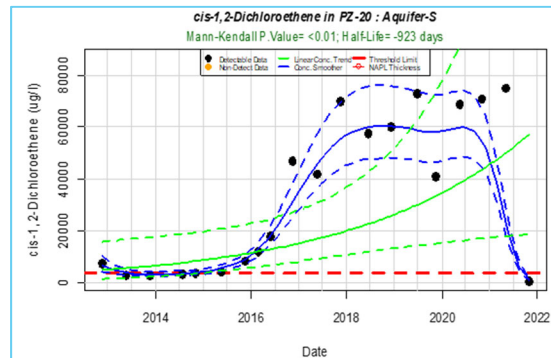
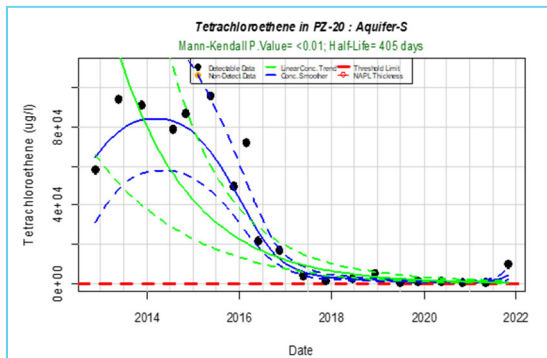
Former Drum Storage Building Area – PCE persistence and magnitude at monitoring well RX-07 is indicative of proximity to source material, and remains consistent with the existing and ongoing conceptual site model for this area of the Site.



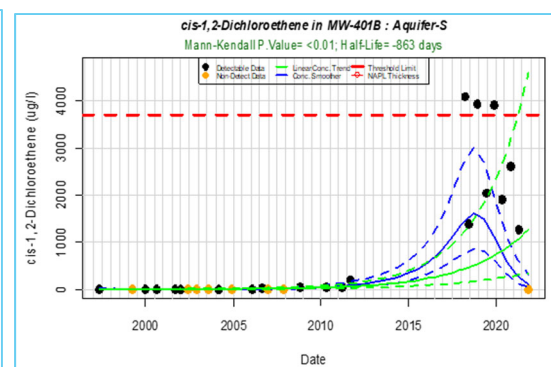
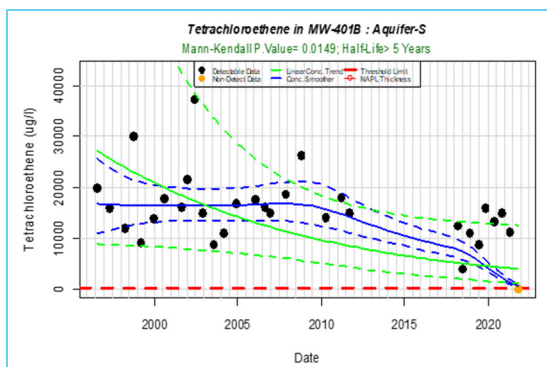
Former AST Area – PCE persistence at monitoring well RX-05 is indicative of proximity to source material and is consistent with the existing and ongoing conceptual site model for this area of the Site.



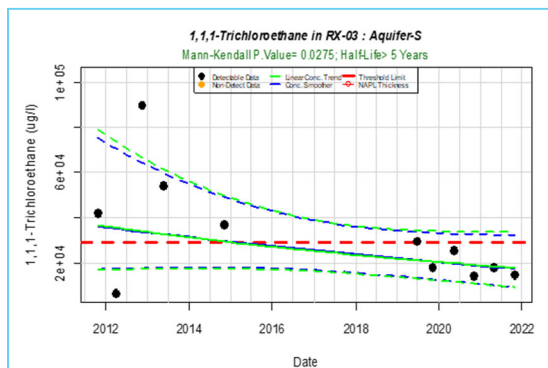
Railroad Siding NAPL Source Area – A shallow PCE source has been characterized along the edge of the former warehouse adjacent to the railroad siding spur. PCE concentrations along the characterized flow path (wells including EW-404, MW-109, MW-33, and PZ-20) have decreased orders of magnitude over the historical record and are currently stable and consistent with the 2020 Annual Report findings. Based on data from PZ-20, as represented in the following graphs, groundwater concentrations from the railroad siding NAPL source Area (Area 3, Inset Figure 2) and in the immediate area prior to No Name Brook (PZ-20) are located within a zone of known documented anaerobic degradation (i.e. 2021 average of PCE is 796 ppb, TCE is 11,026 ppb, and cis-1,2-DCE is 37,809 ppb). There remains significant mass flux from this source area, which is the target for remedial action. A Focused Alternatives Analysis (BC 2020) was provided as Appendix E in the 2019 Annual Report for the railroad siding NAPL source Area, and a Remedial Action Work Plan (BC 2022) was submitted to the MEDEP on April 29, 2022 for this area. MEDEP approval for implementation was secured for the remedial action work plan on May 18, 2022. The following graphs represent decreasing parent source PCE trends vs. degraded daughter cis-1,2-DCE trends in well PZ-20 over time.



Plourde Lyons Area – The P-L area was subject to remediation in 1999 and continues to remain a discrete area of residual impact within the Site boundary. Three shallow water bearing zone wells remain in the area, MW-401B, RX-03 and MW-31. Of these three, only MW-401B shows significant residual impact. This well is screened in predominately clay strata and while the PCE concentrations remain high, indicative of remaining source material, the levels are slowly diminishing, and since 2015 degradation products have been increasing, i.e., slow natural attenuation is progressing with no indication of contaminant transport away from the area. The following graphs represent decreasing PCE trends vs. increasing cis-1,2-DCE trends in shallow water-bearing zone well MW-401B over time.



The dissolved impacts at monitoring well RX-03 in the Plourde Lyons area are below the laboratory detection limits for the chlorinated ethenes (PCE/TCE), although elevated concentrations of 1,1,1-TCA (**Figure 6**) remain, albeit at deminishing levels over time. This is significant in revealing that the shallow groundwater in the Plourde Lyons source area do not contribute to the deep aquifer impacts, as there are no concentrations of 1,1,1-TCA detected at the clay window (MW-208 or PZ-10), or in areas further downgradient in the deep aquifer (MW-34D or MW-35D).



3.6 Post Shallow Groundwater P&T System Shutdown Monitoring

From 1996 to 2011, a shallow groundwater pump and treat system (“shallow system”) was operated in an effort to control migration of dissolved-phase mass. Four extraction wells (EW-series) operated and extracted between 1 to 3 gallons per minute (gpm). This low extraction rate was determined to be a result of poor hydraulic conductivity within the lithology of the shallow water-bearing zone. In March 2011 the MEDEP agreed with BASF that the operation was doing little to either control mass migration or to remediate the groundwater. MEDEP approved that the system be idled in favor of further characterization efforts.

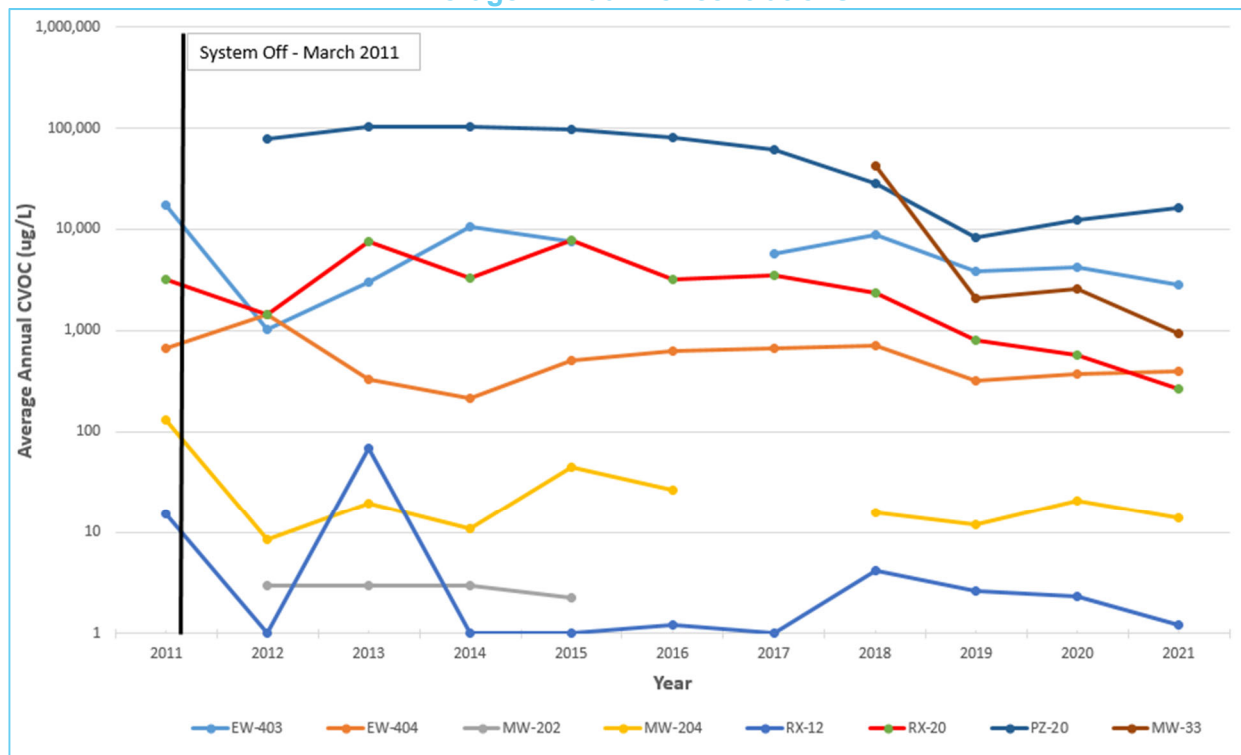
To assess whether the shallow system idling has had an adverse effect on contaminant migration toward the brook, three monitoring wells (MW-204, RX-12, and RX-20) and two former pumping wells (EW-403 and EW-404) were designated as indicator wells. These five indicator wells were selected upon deactivation of the shallow system, as approved by MEDEP in March 2011 and are monitored on a semi-annual basis to observe potential changes in contaminant migration toward the brook.

Monitoring well PZ-20, installed in 2012, is located within a known contaminant migration pathway and adjacent to a discharge zone to No Name Brook. PZ-20 was incorporated into the ongoing semi-annual assessment of plume migration toward the brook and is considered an indicator well included within the post shallow system monitoring well network as detailed in previous annual reports. Monitoring well MW-202 was not sampled in 2019 and was historically removed from the sampling program in 2016 due to historical non-detect concentrations over the previous seven years. Monitoring well RX-12 was installed in the immediate vicinity closer to the plume edge where low-level detections are sporadically observed. Therefore, RX-12 is acting as the defining well in assessing the upgradient northwest edge of the dissolved phase plume.

For a comparative analysis, the summation of the concentrations of PCE, TCE, and 1,1,1-TCA (main parent compounds) for the six indicator wells sampled in 2021 are displayed on a concentration vs. time graph in inset Figure 4 and tabulated in inset Table 2 on the following page along with the reference data from the monitoring well MW-33 installed in 2018. The data from the new monitoring point only reveals source area mass and is not an indication of an expanding plume.



**Inset Figure 4 - Post Shallow GW P&T System Monitoring:
Average Annual Concentrations**



Inset Figure 4 - the summation of average annual concentrations of PCE, TCE, and 1,1,1-TCA for the eight indicator wells sampled in 2021 are graphically represented in concentration vs time trends to display concentrations before and after shutting down the shallow GW P&T system.

**Inset Table 2 - Post Shallow GW P&T System Monitoring:
Average Annual Concentrations**

WELL	PUMPING	NON PUMPING									
	CVOCs (2010-2011) µg/L	CVOCs (2012) µg/L	CVOCs (2013) µg/L	CVOCs (2014) µg/L	CVOCs (2015) µg/L	CVOCs (2016) µg/L	CVOCs (2017) µg/L	CVOCs (2018) µg/L	CVOCs (2019) µg/L	CVOCs (2020) µg/L	CVOCs (2021) µg/L
EW-403	17,165	1,020	3,011	10,577	7,615	NS	5,787	8,843	3,908	4,165	2,791
EW-404	672	1,439	329	214	510	619	673	705	323	370	394
MW-202	0.03	ND (3.0)	ND (3.0)	ND (3.0)	ND (2.25)	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹	NS ¹
MW-204	132	8.4	20	11	44	26	NS	15	12	21	14
RX-12	ND (15)	0.65	69	0.87	0.80	1.2	0.91	4.2	2.6	2.3	1.2
RX-20	3,220	1,455	7,475	3,280	7,790	3,216	3,520	2,374	806	566	263
PZ-20	NI	78,038	104,403	102,500	96,862	80,008	60,470	28,413	8,275	12,345	16,277
MW-33	NI	NI	NI	NI	NI	NI	NI	42,030	2,083	2,596	930

cVOCs = Annual average of combined PCE+TCE+1,1,1-TCA
Concentrations are the averages of sampling events conducted each year
ND values are treated as zeros for the purpose of averaging
Shallow GW P&T system deactivated on October 26, 2011
(1) = Not sampled due to historical non-detect

µg/L= micrograms per Liter
NI = Not Installed
NS = Not Sampled
ND (<) = Not detected below (<) value

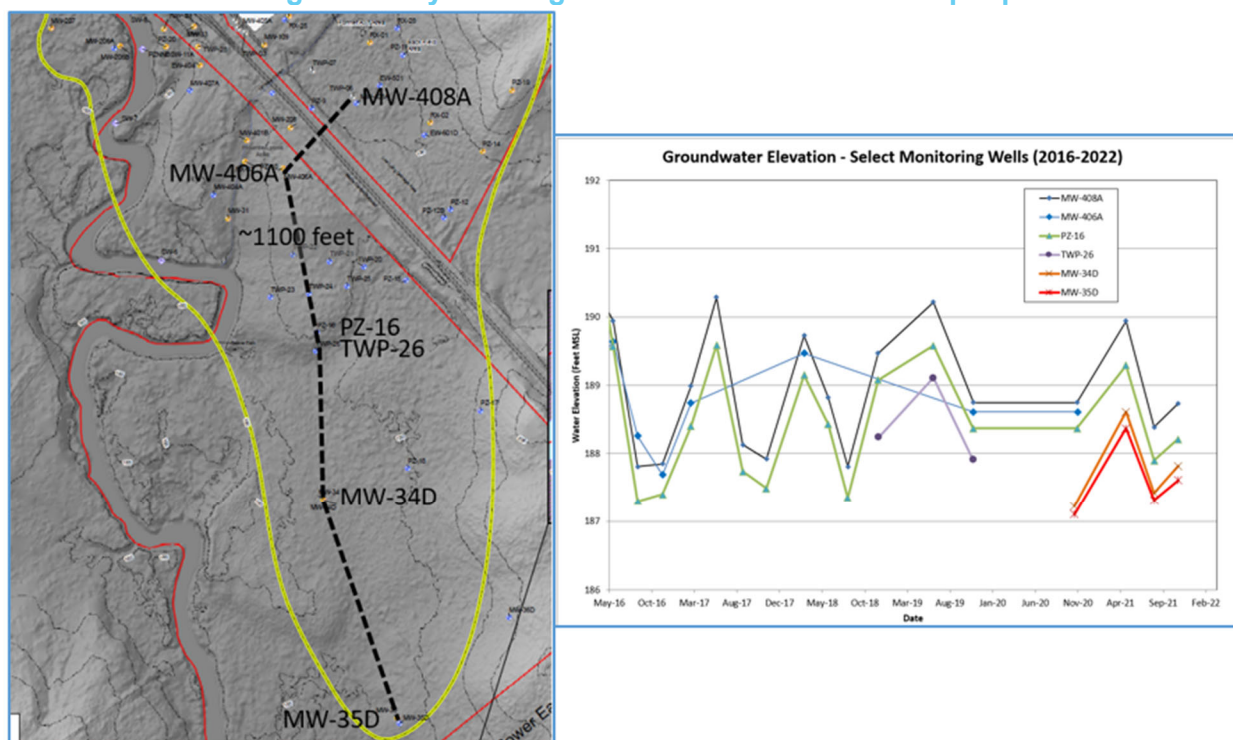
Based on the results provided above, cumulative concentrations are stable, and more recently in 2021, identify some more prominent decreasing trends in most of the indicator wells sampled, with the exception of PZ-20. The apparent PCE-dominated plume identified in the area of wells MW-33 and PZ-20 was apparently unaffected by the operation of EW-404 (see temporal trend in **Appendix C**), mainly because the extraction well did not produce significant water (installed in low hydraulically conductive media). The source to MW-33 and PZ-20 is the subject of the Railroad Siding NAPL Source Area Remedial Action Work Plan (BC 2022). Based on these data, there appears to be no significant negative implications of turning off the shallow system.

3.7 Deep Aquifer

3.7.1 Groundwater Flow – Deep Aquifer 2021

Table 2 provides the gauging data collected at the time of water quality sampling in May, August and November 2021. The groundwater elevation data and respective hydraulic contours for the deep aquifer November 2021 gauging event are provided in **Figure 8**. Inset Figure 5 below shows that there is a small but consistent horizontal hydraulic gradient supporting groundwater flow to the south. As shown in the next sub-section, water quality data support this interpretation.

Inset Figure 5 – Hydraulic gradient associated with deep aquifer



Inset Figure 5 identifies the low but consistent hydraulic gradient in the deep aquifer in the southern direction.

3.7.2 Contaminant Fate & Transport – Deep Aquifer 2021

Iso-concentration maps for the chlorinated-ethene family of compounds (PCE, TCE, and cis-1,2-DCE) have been developed for the deep aquifer using the 2021 data, and are attached as **Figure 9**. Using historical and current site information, and taking into consideration the apparent groundwater flow direction, the iso-concentration maps provide an interpretation of the current



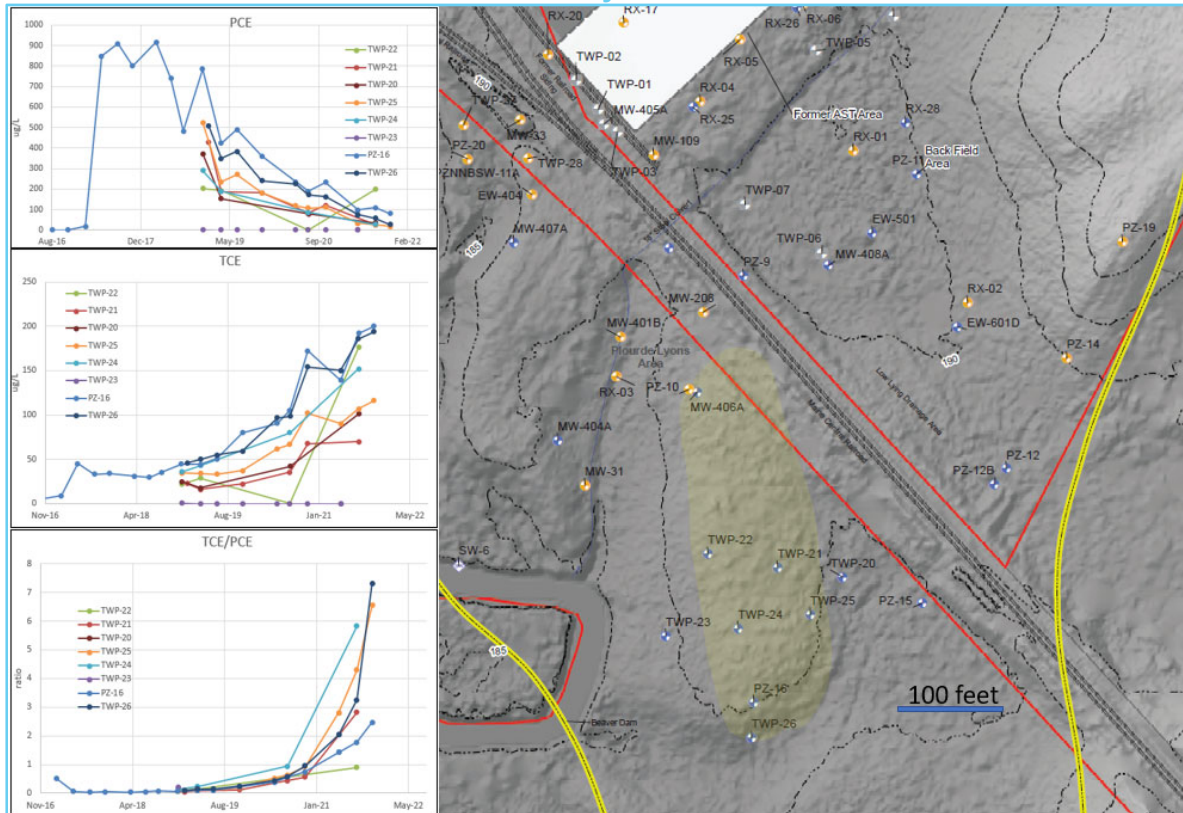
horizontal distribution of chlorinated ethene constituents detected in the deep aquifer at the Site. These findings from the 2021 data provided herein support the previous conclusions and Conceptual Site Model discussed in detail in the 2020 Annual Operations Report.

The data remain consistent with the CSM put forth in the 2020 Report. In summary:

1. While EW-501 was operating, the extraction well influenced the hydrology in the shallow unit by virtue of the clay 'window', such that it drew dissolved-phase PCE downward (an unnatural condition).
2. Dissolved PCE source material entered the deep aquifer near shallow well PZ-10 (the deeper well, MW-406A is not affected), whereupon it got pulled toward the hydraulic influence of the extraction well EW-501.
3. During operation of EW-501, dissolved PCE was prevalent at MW-408A and EW-501 (see **Appendix D**).
4. When EW-501 was idled in November 2014, mass that had entered the 'window' followed the natural deep aquifer groundwater gradient to the south. The PCE mass that had just entered at this point arrived at PZ-16 (a previously un-impacted well) in early 2016. Inset Figures 6 and 7 on the following page show the PCE and TCE as well as the TCE/PCE ratio at wells in the vicinity of, and downgradient of PZ-16. The implied slug arrived at PZ-16 as a sharp front composed of predominately PCE. As time elapsed, a dispersed declining trend is apparent, with the ratio of TCE/PCE increasing, implying that the impact is event-based and is naturally attenuating.

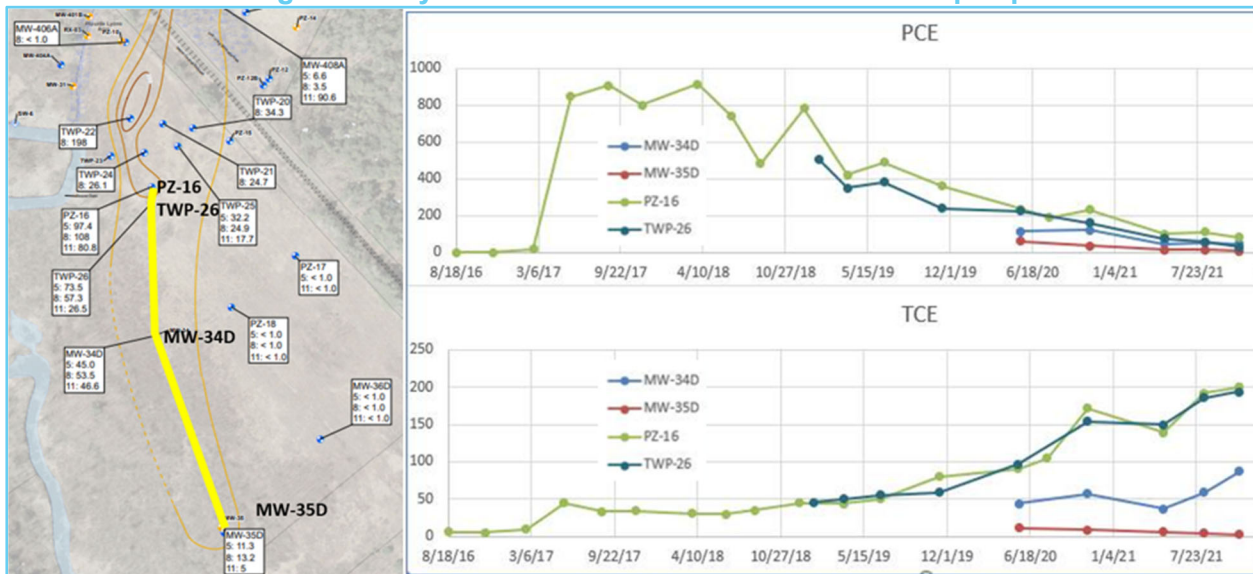
Inset Figure 8 provides a plume cross section along its extent and it compares data from 2020 and 2021. While PCE and TCE impacts extend past MW-35D, a natural spring was identified further downgradient approximately 300 feet south of MW-35D beyond the Central Maine Power easement. In November 2020 a water sample was collected from the active spring and VOCs were non-detect in the sample. This spring sample is considered the furthest downgradient sample collected as part of site characterization activities.

Inset Figure 6 – PCE, TCE and TCE/PCE Ratio over Time Vicinity of PZ-16



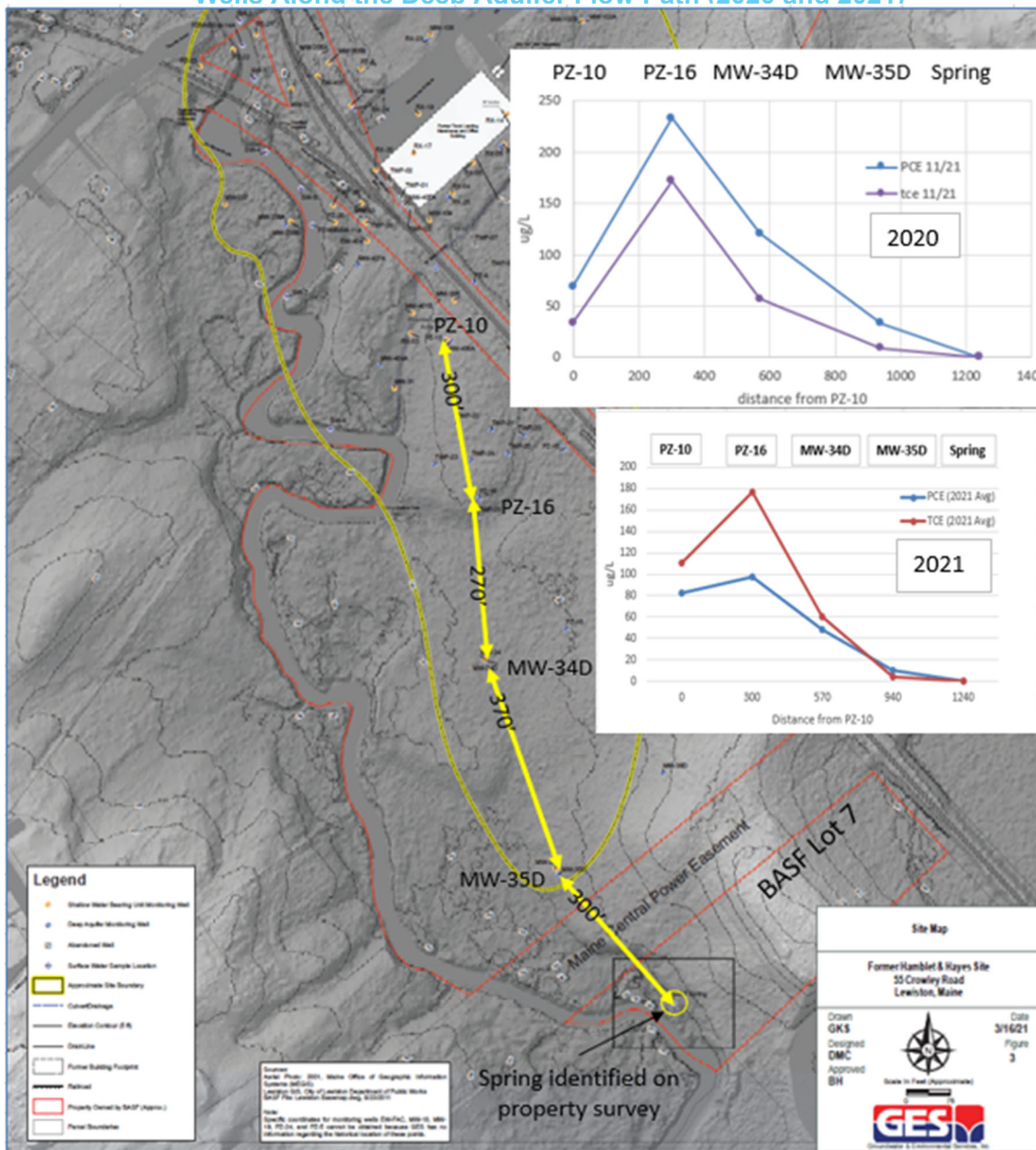
Inset Figure 6 – Temporal trends at wells in the vicinity of PZ-16 showing a sharp arriving front and a dispersed natural attenuation, both conditions indicative of an incidental release upgradient. The impact is bounded to the east and west.

Inset Figure 7 – Hydraulic Gradient Associated with Deep Aquifer



Inset Figure 7 – Temporal trends at wells along the implied flow path from PZ-16 to MW-35D, showing a sharp arriving front and a dispersed natural attenuation, both conditions indicative of an incidental release upgradient.

**Inset Figure 8 – Plot of PCE and TCE Data
 Wells Along the Deep Aquifer Flow Path (2020 and 2021)**



Inset Figure 8 – Plot of PCE and TCE data at wells along the deep aquifer flow path in 2020 vs 2021. TCE concentrations average higher in 2021 vs. 2020 identifying degradation. A spring was identified on a property survey map, and a sample was collected in November 2020. The results were non-detect for all VOCs.

3.8 Post Deep Aquifer Extraction System Shutdown Monitoring

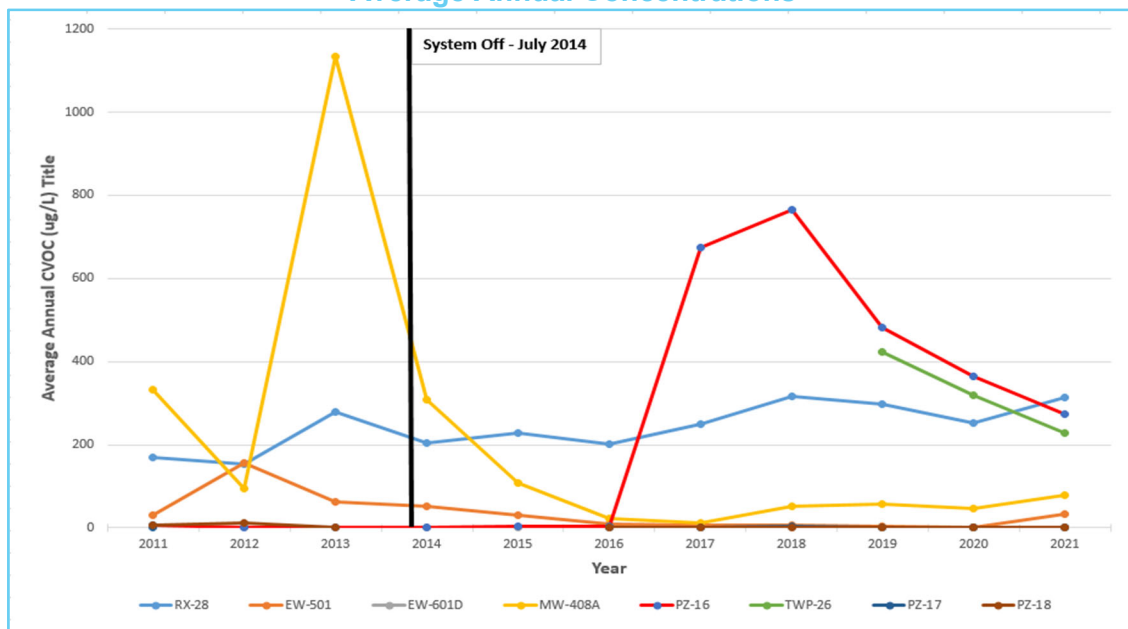
The deep aquifer groundwater extraction system was idled on July 30, 2014. This idling was based on analytical data indicating that the pumps operation was increasing the vertical PCE mass flux into the deep aquifer. This increase was caused by an artificially elevated vertical component of the hydraulic gradient across the confining unit that separates the shallow and deep



hydraulic regimes. At that time, the Lewiston-Auburn Water Pollution Control Authority (LAWPCA) suspended the BASF Permit to Discharge #0311, thus prohibiting BASF from discharging any wastewater/groundwater or remediation wastewater to the Lewiston municipal sewer system. Conditions for pursuing temporary and/or full reinstatement of the Permit #0311 are detailed in the suspension documents should discharge be warranted at the Site in the future.

A monitoring program was put in place to assess any change in contaminant hydrology resulting from idling EW-501. Specifically, in 2014, seven monitoring wells (EW-601D, MW-408A, RX-28, PZ-16, PZ-17, PZ-18, and TWP-26) and the former pumping well (EW-501) were designated as indicator wells. A summary of the deep aquifer groundwater analytical data from the May, August, and November 2021 sampling events are provided in **Table 4**. For a comparative analysis, the summation of the concentrations of PCE and TCE for the eight indicator wells sampled in 2021 are graphically represented in concentration vs time trends in Inset Figure 9 and the data are tabulated in Inset Table 3 on the following page.

**Inset Figure 9 - Post Deep GW P&T System Monitoring:
 Average Annual Concentrations**



Inset Figure 9 - the summation of average annual concentrations of PCE, TCE, and cis-1,2-DCE for the eight indicator wells sampled in 2020 are graphically represented in concentration vs time trends to display concentrations before and after shutting down the deep aquifer GW P&T system.



**Inset Table 3 - Post Deep GW P&T System Monitoring:
Average Annual Concentrations**

WELL	PUMPING				NON PUMPING						
	CVOCs (2010– 2011)	CVOCs (2012) ⁽¹⁾	CVOCs (2013)	CVOCs (2014)	CVOCs (2015)	CVOCs (2016)	CVOCs (2017)	CVOCs (2018)	CVOCs (2019)	CVOCs (2020) ⁽²⁾	CVOCs (2021)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
RX-28	170	152	278	204	229	201	249	317	298	251	313
EW-501	31	155	62	53	29	9.2	7.0	5.3	3.8	0.85	33
EW-601D	NS	ND (2.0)	NS	0.24	ND (1.75)	ND (1.0)	ND (1.5)	1.6	0.66	ND (2.0)	ND (1.0)
MW-408A	331	96	1,134	308	108	22	11	51	56	47	79
PZ-16	ND (5.6)	0.16	1.5	ND (2.0)	4.8	4.6	674	766	482	365	272
TWP-26	NI	NI	NI	NI	NI	NI	NI	NS	422	318	229
PZ-17	ND (0.55)	NS	NS	NS	NS	ND (1.0)	ND (1.0)	4.7	0.78	ND (2.0)	ND (1.0) ²
PZ-18	ND (5.6)	13	ND (2.0)	NS	NS	ND (1.0)	ND (1.75)	2.1	0.62	ND (2.0)	ND (1.0)

CVOCs = Annual average of combined PCE+TCE
Concentrations are the averages of sampling events conducted each year
ND values are treated as zeros for the purpose of averaging
Deep aquifer GW P&T system (EW-501) deactivated in July 2014
(1) = November 2012 data only
(2) = May and November data only

µg/L = micrograms per Liter
NS = Not Sampled; NI = not installed
ND (<) = Not detected below (<) value

Based on the results provided above, cumulative concentrations appear to be stable or decreasing at these indicator wells. Monitoring well PZ-16 indicates a significant increase in cVOC concentrations in 2017 that peaked in 2018 and currently exhibit a three year decreasing trend. Temporal trend plots for each individual COC in each of the deep wells sampled in 2021, along with respective linear concentrations trends, are provided in **Appendix D**.

4 Proposed 2022 Groundwater and Surface Water Sampling Program

The 2022 Site-wide groundwater-monitoring program will be maintained to meet the requirements established in the amended Compliance Order between MEDEP and BASF, dated March 2012 and to verify and refine the CSM for contaminant fate and transport in the deep aquifer downgradient of the BFA. This monitoring plan does not differ significantly from previous years and is already underway as the May 2022 event has been completed.

The two comprehensive 2022 monitoring events (**Table 5**) include 23 monitoring wells in the shallow water-bearing zone and 17 deep aquifer wells. The annual surface water locations recommended to be sampled in 2022 are also summarized in **Table 5**.

One additional targeted deep aquifer event is proposed for July 2022 to include the TWP well network and the new monitoring wells installed in May 2020 (MW-34, MW-34D, MW-35, MW-35D, and MW-36D). These sampling events will be conducted to monitor trends and collect aquifer geochemistry to evaluate conditions for, and the occurrence of, reductive dechlorination as an ongoing natural attenuation process under the non-pumping conditions. Semi-annual monitoring proposed in 2022 will assess the combined shallow water-bearing zone and deep aquifer trends. Groundwater and surface water sample locations proposed are depicted on the Site Map, attached as **Figure 3**.



For the May, July, and November 2022 sampling events, the selection of shallow and deep wells are amended each year in order to obtain a focused snapshot of the current concentrations in groundwater in the shallow water-bearing zone and within the deep aquifer based on the annual assessments. Note that the newly installed monitoring wells (MW-34, MW-34D, MW-35, MW-35D, and MW-36D) are included in the sampling program for each of the tri-annual events.

5 Schedule for Investigation and Remedial Activities

The following proposed activities (along with a tentative schedule) are planned for 2022:

- Ongoing deep aquifer assessment sampling under non-pumping conditions - May, July, and November 2022. This will be primarily utilized to focus on the downgradient leading edge of the dissolved plume in the deep aquifer to ensure concentrations continue to decrease in accordance with the concepts communicated in the Updated Conceptual Site Model
- Comprehensive compliance groundwater monitoring - May and November 2022.
- Compliance surface water sampling - November 2022.
- Implement the Remedial Action Work Plan for the Railroad Siding NAPL Source Area (BC 2022) beginning in September.
- 2022 Annual Operations Report – Q2 2023.

6 References

Brown & Caldwell. Focused Feasibility Study. Former Hamblet and Hayes Site Lewiston, Maine. April 2015.

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Brown & Caldwell. Focused Alternatives Analysis for the Railroad Siding NAPL Source Area. Former Hamblet and Hayes Site Lewiston, Maine. August 2020.

Brown & Caldwell. Remedial Action Work Plan for the Railroad Siding NAPL Source Area. Former Hamblet and Hayes Site Lewiston, Maine. April 29, 2022.

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Figures

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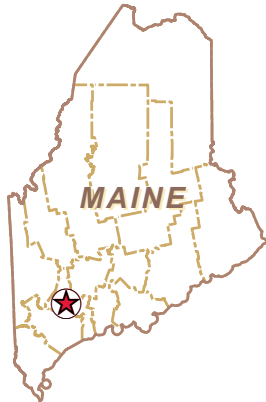


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Sources:

USGS 7.5 Minute Series Topographic Quadrangles
Lewiston and Lisbon Falls North



Site Location Map

**Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine**

Drawn
GKS
Designed
DMC
Approved
BH

Date
2-13-18

Figure
1



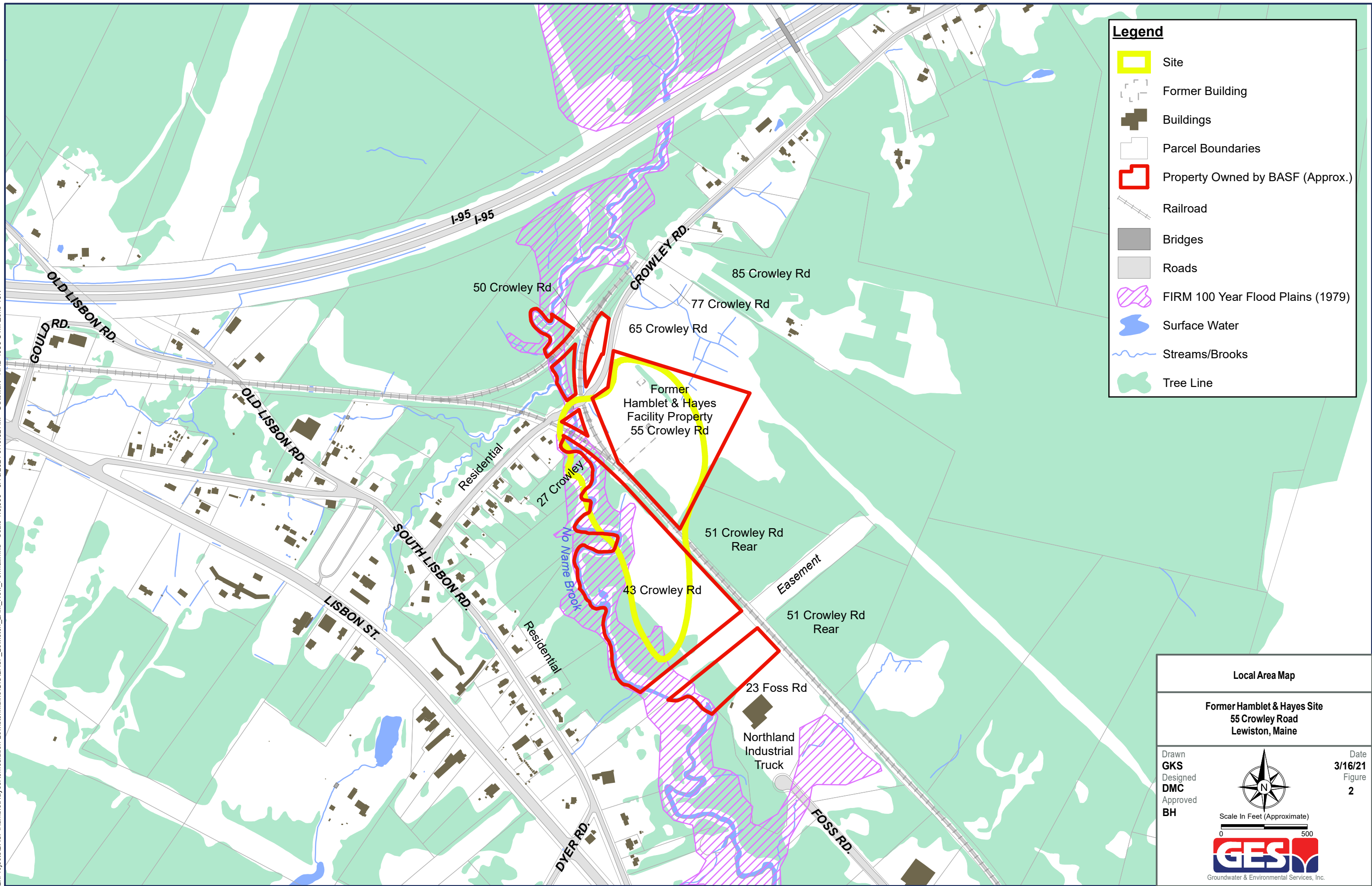
Scale In Feet (Approximate)

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Groundwater & Environmental Services, Inc.

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Legend

- Site
- Former Building
- Buildings
- Parcel Boundaries
- Property Owned by BASF (Approx.)
- Railroad
- Bridges
- Roads
- FIRM 100 Year Flood Plains (1979)
- Surface Water
- Streams/Brooks
- Tree Line

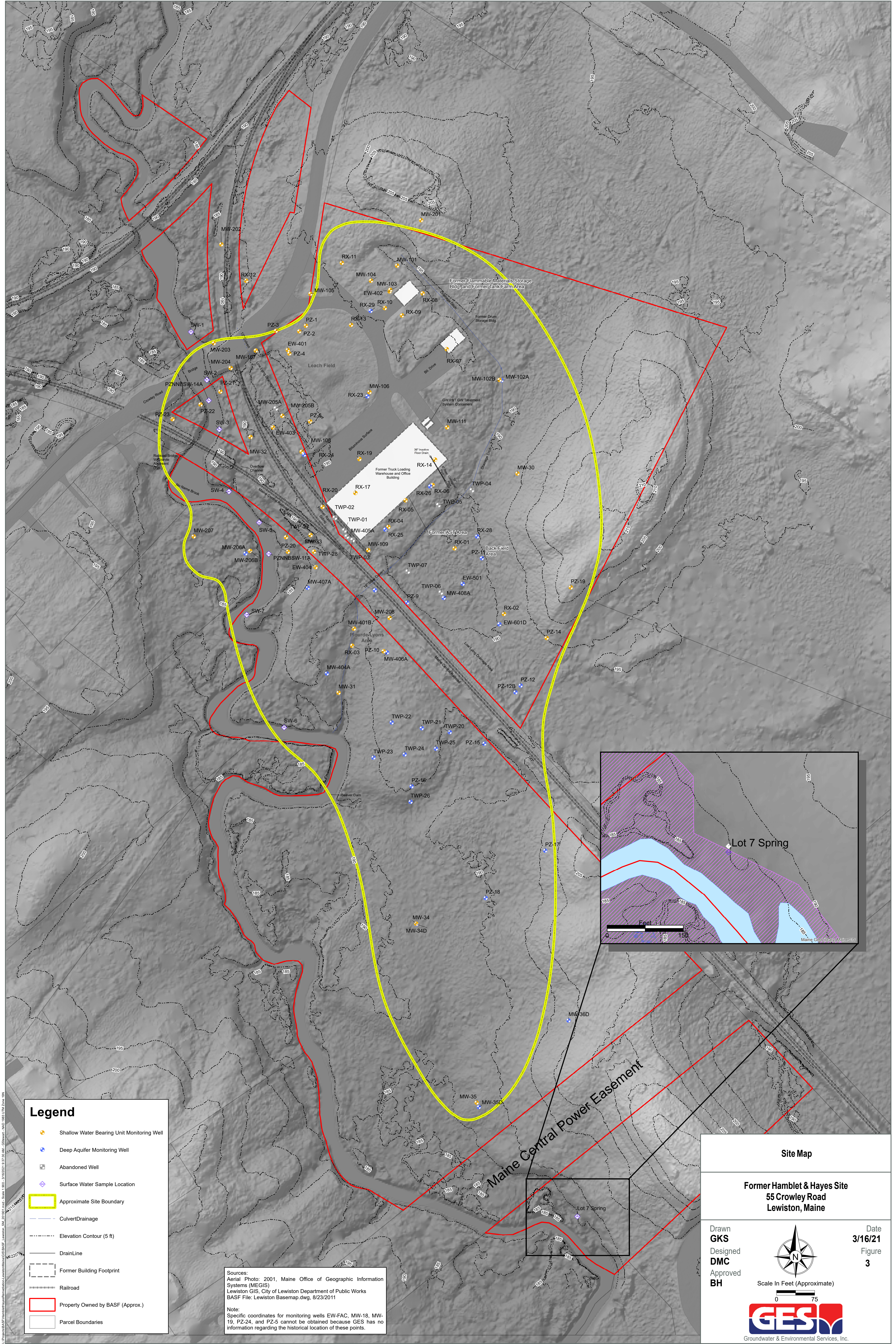
Local Area Map

**Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine**

Drawn GKS Designed DMC Approved BH	Date 3/16/21 Figure 2
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Scale In Feet (Approximate)

Groundwater & Environmental Services, Inc.

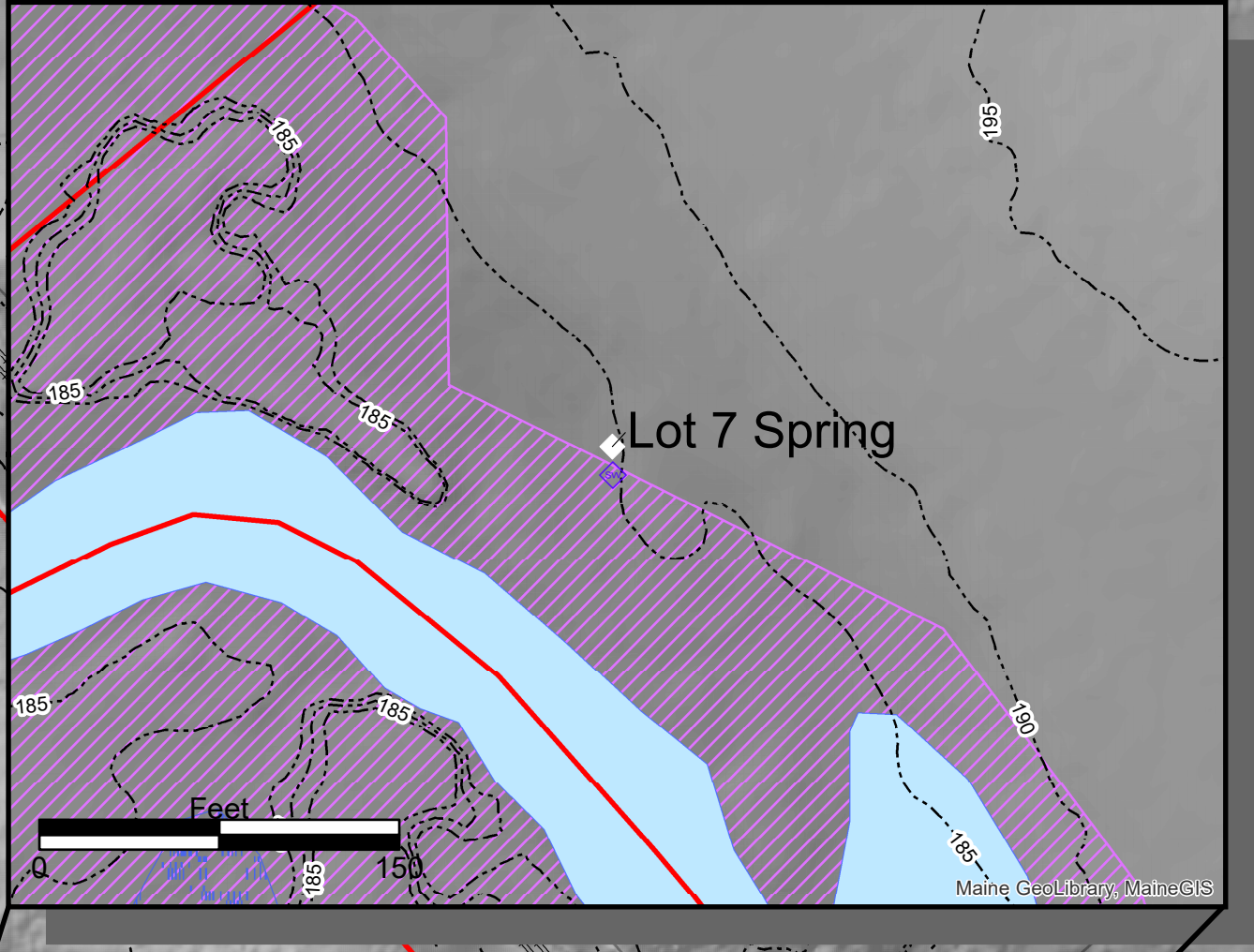


Legend

- Shallow Water Bearing Unit Monitoring Well
- Deep Aquifer Monitoring Well
- Abandoned Well
- ◆ Surface Water Sample Location
- Approximate Site Boundary
- Culvert/Drainage
- Elevation Contour (5 ft)
- DrainLine
- Former Building Footprint
- Railroad
- Property Owned by BASF (Approx.)
- Parcel Boundaries

Sources:
 Aerial Photo: 2001, Maine Office of Geographic Information Systems (MEGIS)
 Lewiston GIS, City of Lewiston Department of Public Works
 BASF File: Lewiston Basemap.dwg, 8/23/2011

Note:
 Specific coordinates for monitoring wells EW-FAC, MW-18, MW-19, PZ-24, and PZ-5 cannot be obtained because GES has no information regarding the historical location of these points.



Site Map

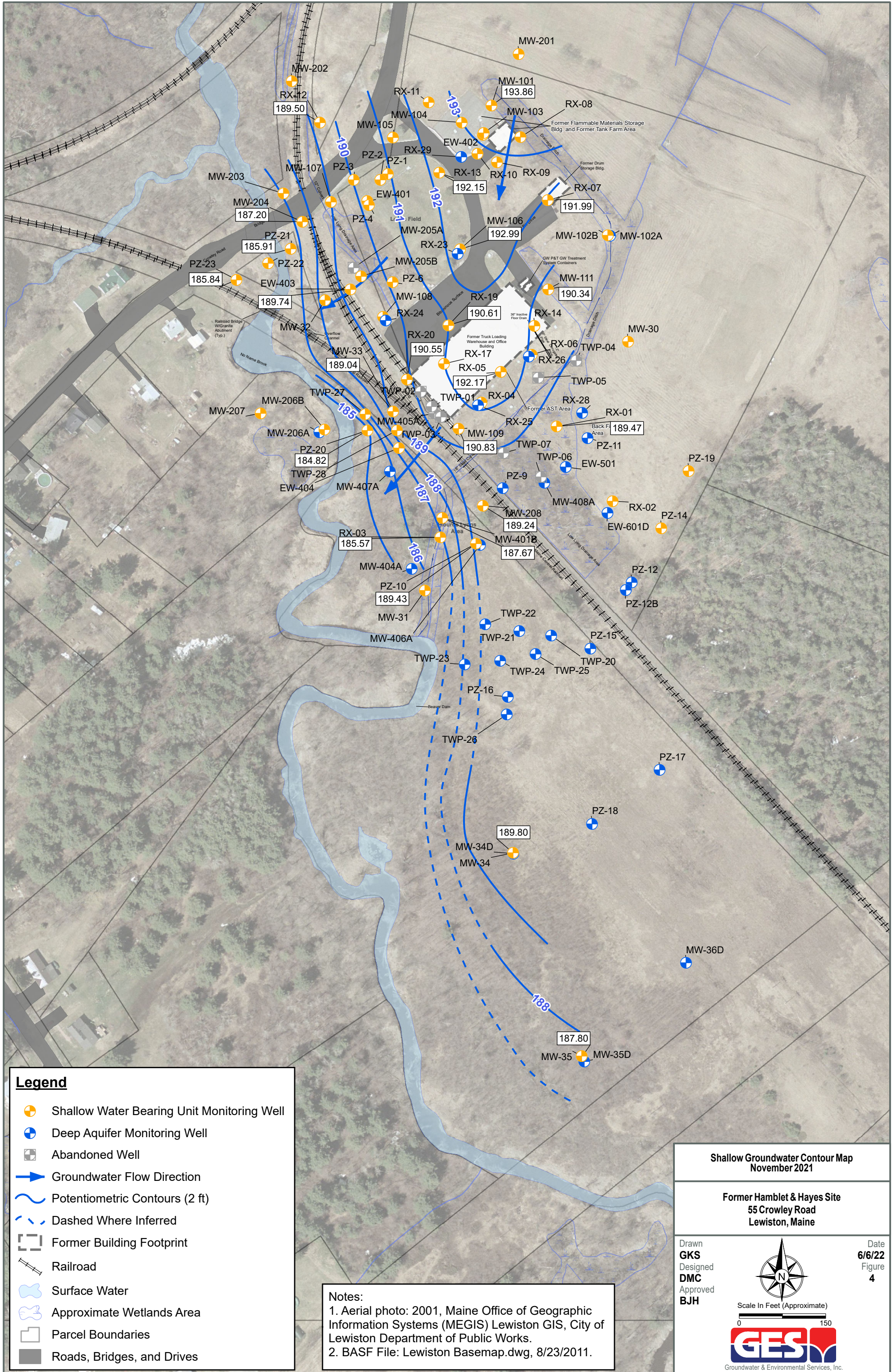
Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine

Drawn
GKS
 Designed
DMC
 Approved
BH

Date
3/16/21
 Figure
3

Scale In Feet (Approximate)
 0 75

GES
 Groundwater & Environmental Services, Inc.



Legend

- Shallow Water Bearing Unit Monitoring Well
- Deep Aquifer Monitoring Well
- Abandoned Well
- Groundwater Flow Direction
- Potentiometric Contours (2 ft)
- Dashed Where Inferred
- Former Building Footprint
- Railroad
- Surface Water
- Approximate Wetlands Area
- Parcel Boundaries
- Roads, Bridges, and Drives

Notes:

1. Aerial photo: 2001, Maine Office of Geographic Information Systems (MEGIS) Lewiston GIS, City of Lewiston Department of Public Works.
2. BASF File: Lewiston Basemap.dwg, 8/23/2011.

Shallow Groundwater Contour Map
November 2021

Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine

Drawn
GKS
Designed
DMC
Approved
BJH

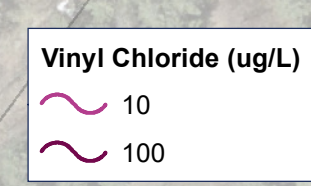
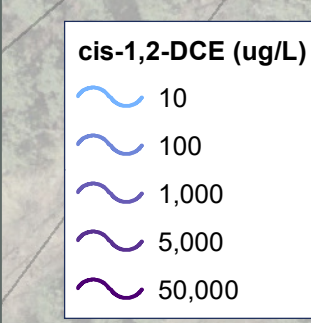
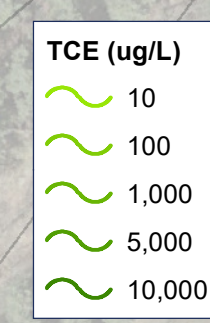
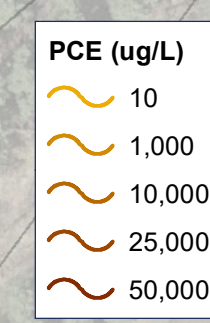
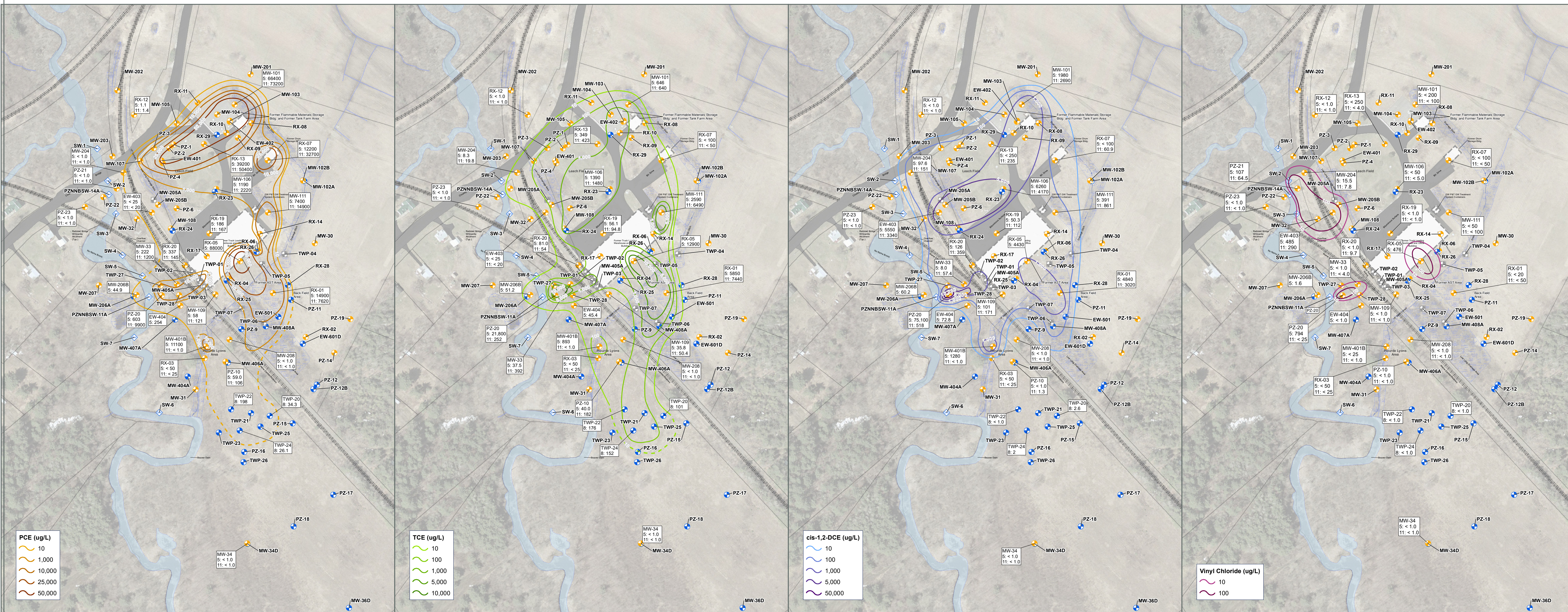
Date
6/6/22
Figure
4



Scale In Feet (Approximate)
0 150



Groundwater & Environmental Services, Inc.



Tetrachloroethylene (PCE)
2021

Trichloroethylene (TCE)
2021

cis-1,2-Dichloroethene (cis-1,2-DCE)
2021

Vinyl Chloride
2021

DEGRADATION PATHWAY

- Legend**
- Shallow Water Bearing Unit Monitoring Well
 - Deep Aquifer Monitoring Well
 - Abandoned Monitoring Well
 - Surface Water Sample Location
 - Former Building Footprint
 - Railroad
 - Surface Water
 - Approximate Wetlands Area
 - Parcel Boundaries
 - Roads, Bridges, and Drives

Notes:

- Concentrations are in micrograms per liter (ug/L)
- Labels indicate the month (May or November) of sample result (i.e., 5: and 11:)
- The Maine Exposure Guideline (MEG) for PCE, TCE, cis-1,2-DCE, and VC is 40 ug/L, 4 ug/L, 10 ug/L, and 0.2 ug/L, respectively.
- Isoconcentration maps are based on current concentrations and, where data is not available, based on historical concentrations. The actual extent of impacts may vary.
- Southern wells MW-348 & MW-35 were non-detect (< 1.0)
- Contours are dashed where inferred.

Sources:

Aerial Photo: 2001, Maine Office of Geographic Information Systems (MEGIS)
Lewiston GIS, City of Lewiston Department of Public Works
BASF File: Lewiston Basemap.dwg, 8/23/2011

Chlorinated Ethene Concentrations Shallow Groundwater 2021

**Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine**

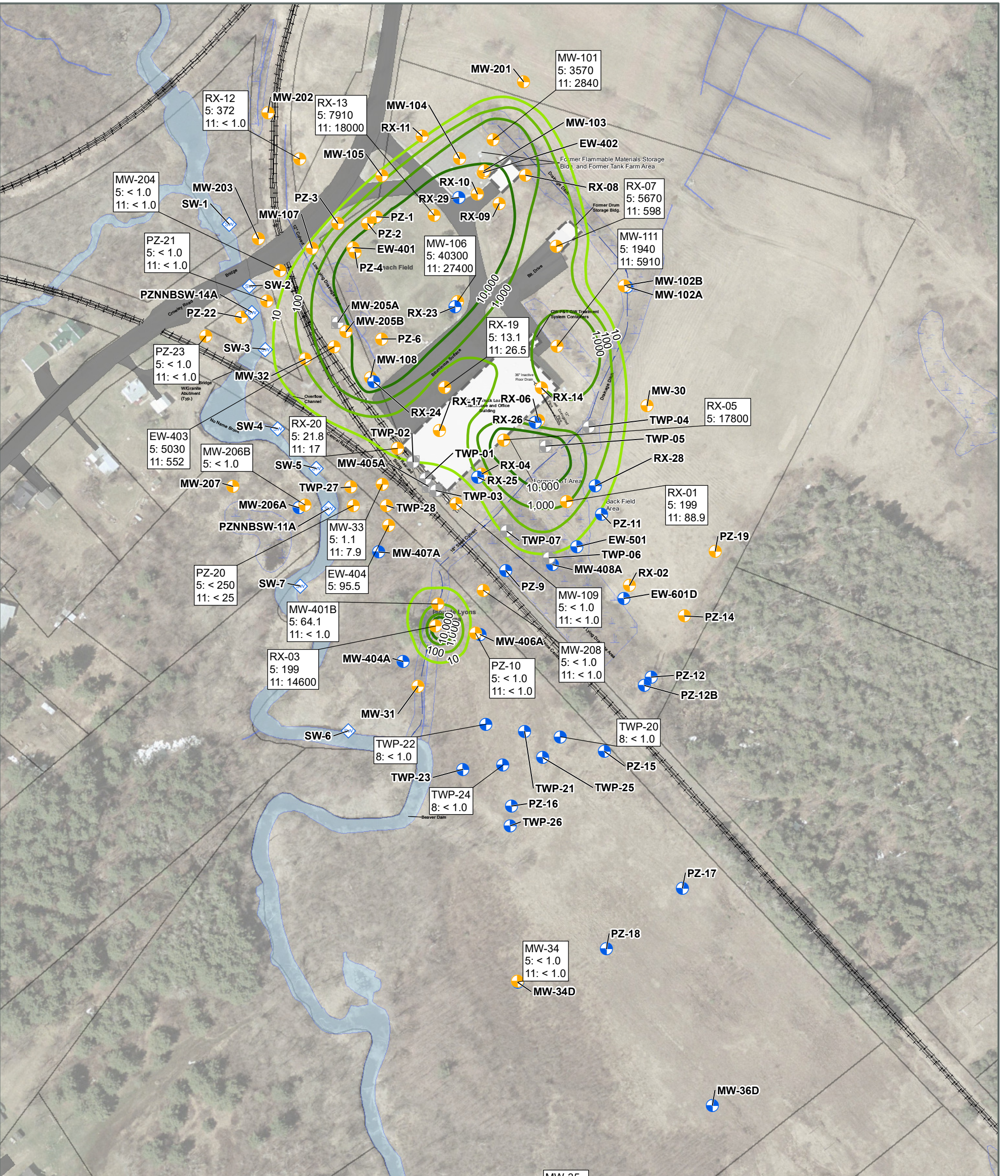
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DMC
Approved
BJH

Date
7/21/22
Figure
5

Scale In Feet (Approximate)

GES
Groundwater & Environmental Services, Inc.

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Legend

- Shallow Water Bearing Unit Monitoring Well
- Deep Aquifer Monitoring Well
- Abandoned Monitoring Well
- Surface Water Sample Location

1,1,1-TCA ug/L

- 10
- 100
- 1,000
- 10,000

- Former Building Footprint
- Railroad
- Surface Water
- Approximate Wetlands Area
- Parcel Boundaries
- Roads, Bridges, and Drives

Notes:

- Labels indicate the month (May or November) of sample result (i.e., 5: and 11:)
- Concentrations in micrograms per liter (ug/L)
- Isoconcentration maps are based on current concentrations and, where data is not available, based on historical concentrations. The actual extent of impacts may vary.

Sources:
 Aerial Photo: 2001, Maine Office of Geographic Information Systems (MEGIS)
 Lewiston GIS, City of Lewiston Department of Public Works
 BASF File: Lewiston Basemap.dwg, 8/23/2011

1,1,1-Trichloroethane Concentrations in Shallow Groundwater - 2021

**Former Hamblet & Hayes Site
 55 Crowley Road
 Lewiston, Maine**

Drawn
JDB
 Designed
DMC
 Approved
BJH

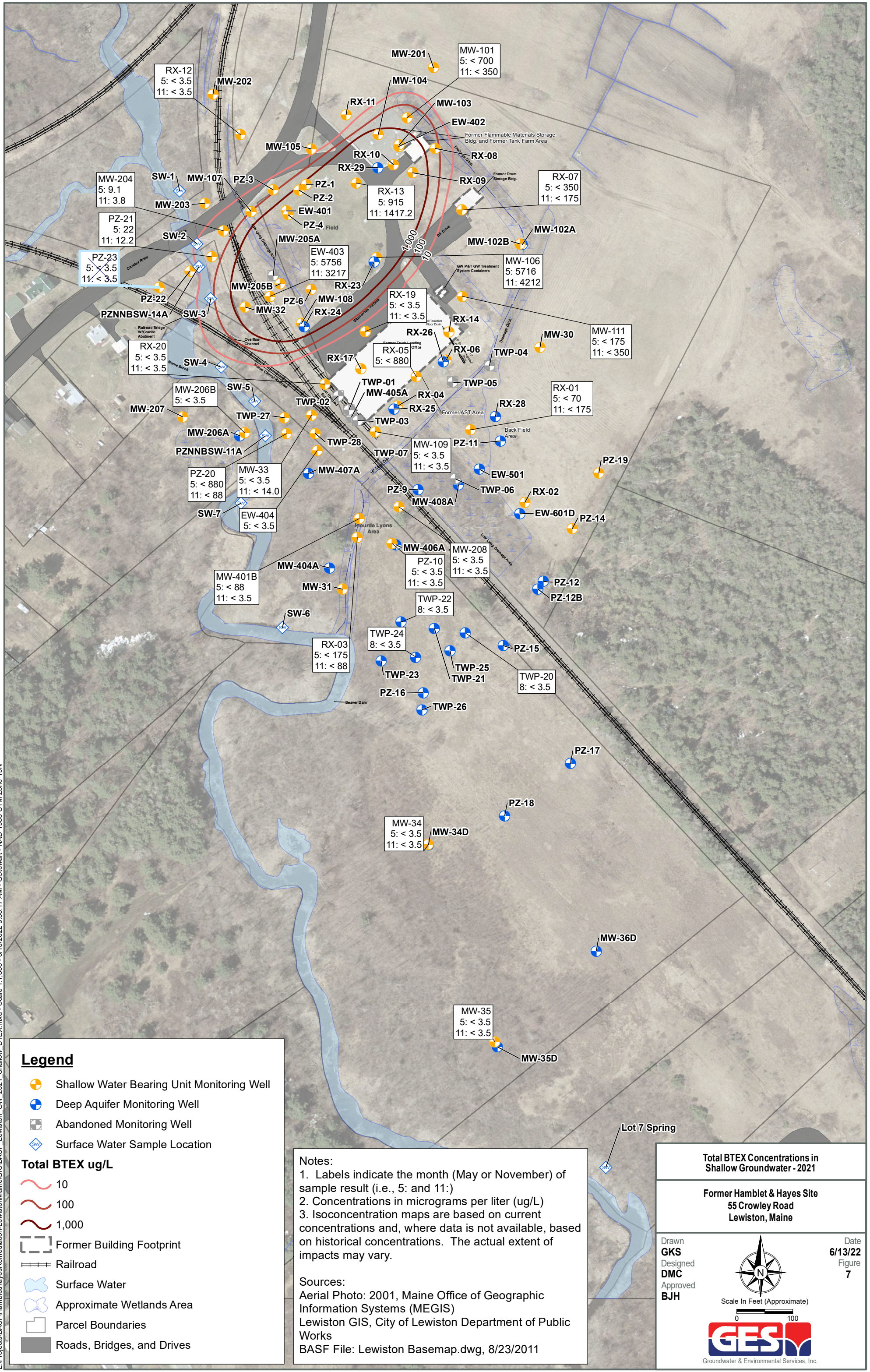
Date
7/21/22
 Figure
6

Scale In Feet (Approximate)

0 150

GES
 Groundwater & Environmental Services, Inc.

L:\Projects\BASF\HambletHayesRemediation-Lewiston\Maine\GIS\BASF_Lewiston_GW_2021_Shallow_BTEX.mxd - Scale 1:1,800 - 6/13/2022 9:36:17 AM - GStewart - NAD 1983 UTM Zone 19N



Legend

- Shallow Water Bearing Unit Monitoring Well
 - Deep Aquifer Monitoring Well
 - Abandoned Monitoring Well
 - Surface Water Sample Location
- Total BTEX ug/L**
- 10
 - 100
 - 1,000
- Former Building Footprint
 - Railroad
 - Surface Water
 - Approximate Wetlands Area
 - Parcel Boundaries
 - Roads, Bridges, and Drives

Notes:

- Labels indicate the month (May or November) of sample result (i.e., 5: and 11:)
- Concentrations in micrograms per liter (ug/L)
- Isoconcentration maps are based on current concentrations and, where data is not available, based on historical concentrations. The actual extent of impacts may vary.

Sources:

Aerial Photo: 2001, Maine Office of Geographic Information Systems (MEGIS)
 Lewiston GIS, City of Lewiston Department of Public Works
 BASF File: Lewiston Basemap.dwg, 8/23/2011

Total BTEX Concentrations in Shallow Groundwater - 2021

Former Hamblet & Hayes Site
 55 Crowley Road
 Lewiston, Maine

Drawn
GKS

Designed
DMC

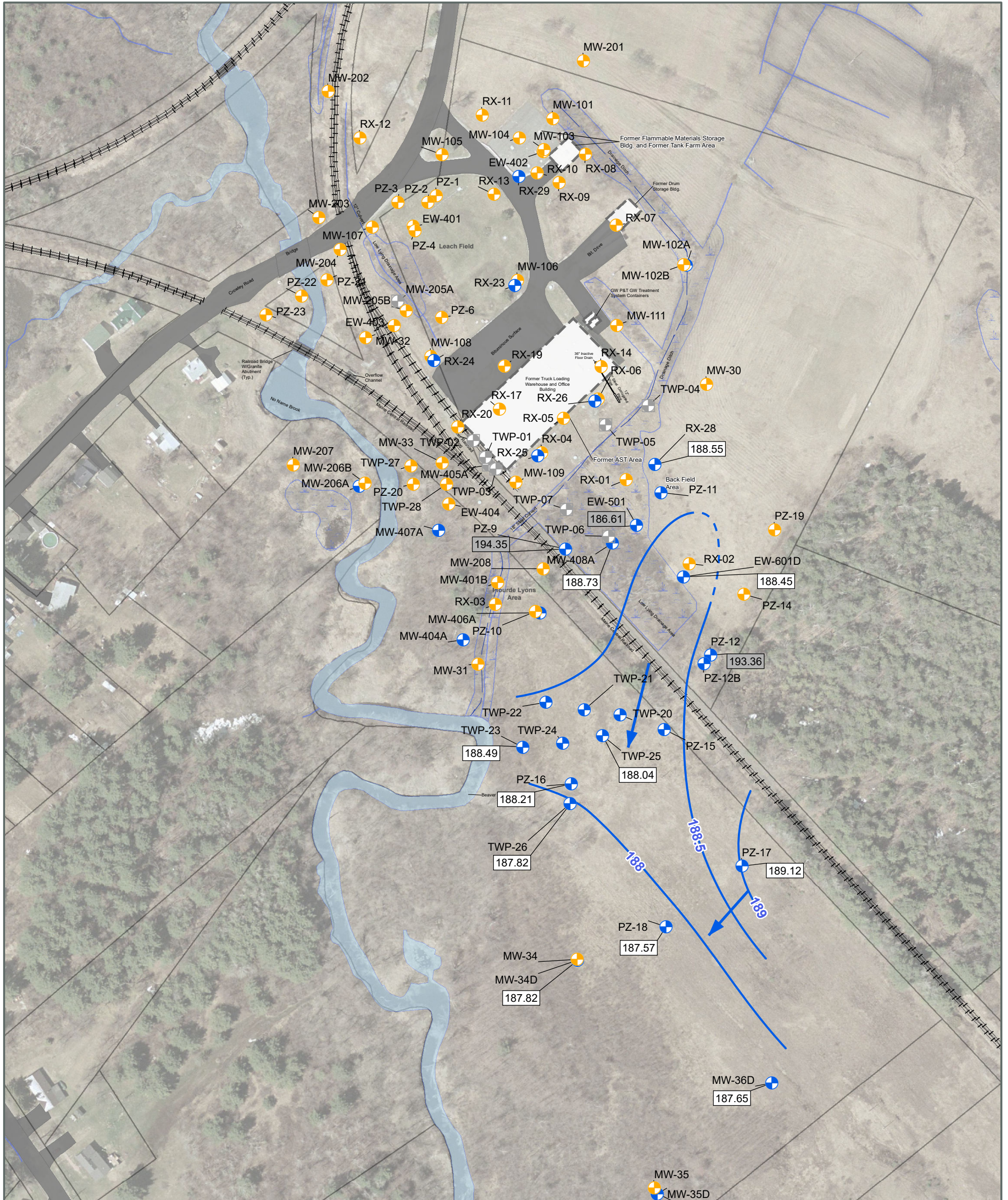
Approved
BJH

Date
6/13/22

Figure
7

Scale In Feet (Approximate)

Groundwater & Environmental Services, Inc.



Legend

- Shallow Water Bearing Unit Monitoring Well
- Deep Aquifer Monitoring
- Abandoned Well
- Groundwater Flow Direction
- ~ Potentiometric Contours (0.5 ft)
- - - Dashed Where Inferred
- Former Building Footprint
- Railroad
- ~ Surface Water
- ~ Approximate Wetlands
- Parcel Boundaries
- Roads, Bridges, and Drives

Notes:

1. As part of the deep aquifer assessment activities, the deep aquifer pumping well EW-501 was turned off on July 30, 2014.
2. EW-501, PZ-9, and PZ-12 were excluded from the contour analysis. Groundwater elevation for these wells are shaded in gray.
3. Aerial photo: 2001, Maine Office of Geographic Information Systems (MEGIS) Lewiston GIS, City of Lewiston Department of Public Works.
4. BASF File: Lewiston Basemap.dwg, 8/23/2011.

**Deep Groundwater Contour Map
November 2021**

**Former Hamblet & Hayes Site
55 Crowley Road
Lewiston, Maine**

Drawn
GKS
Designed
DMC
Approved
BJH

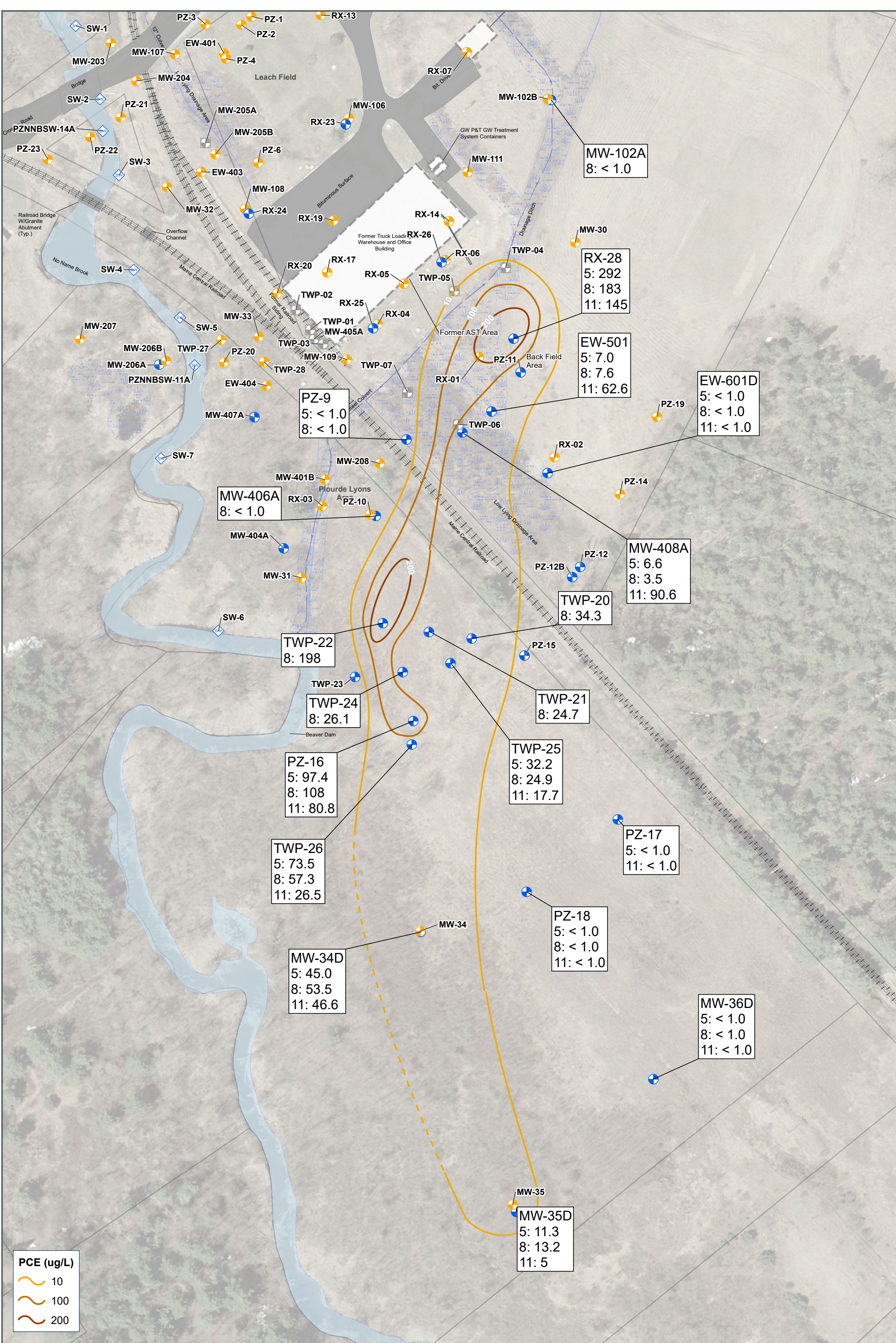


Date
6/6/22
Figure
8

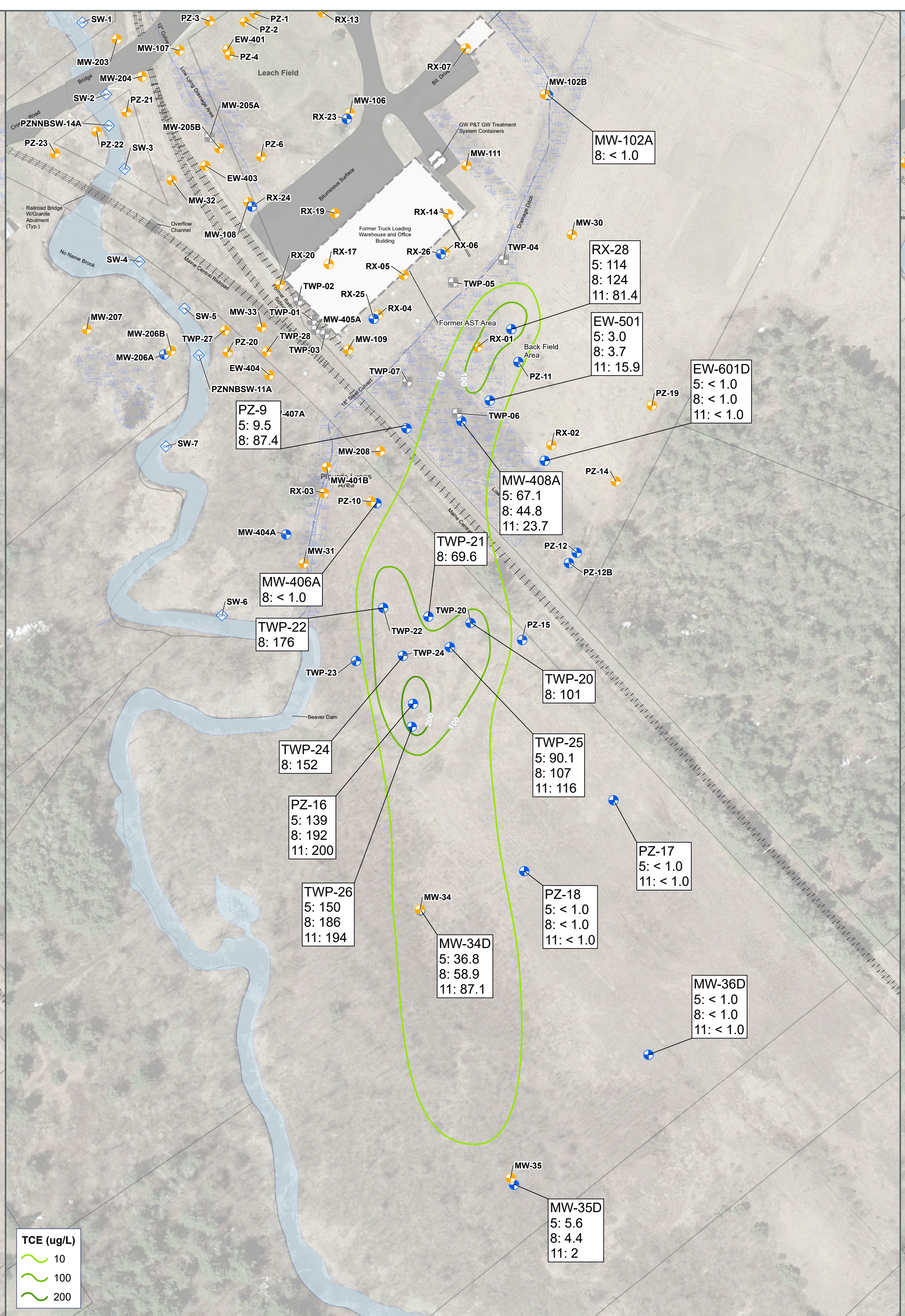
Scale In Feet (Approximate)
0 150



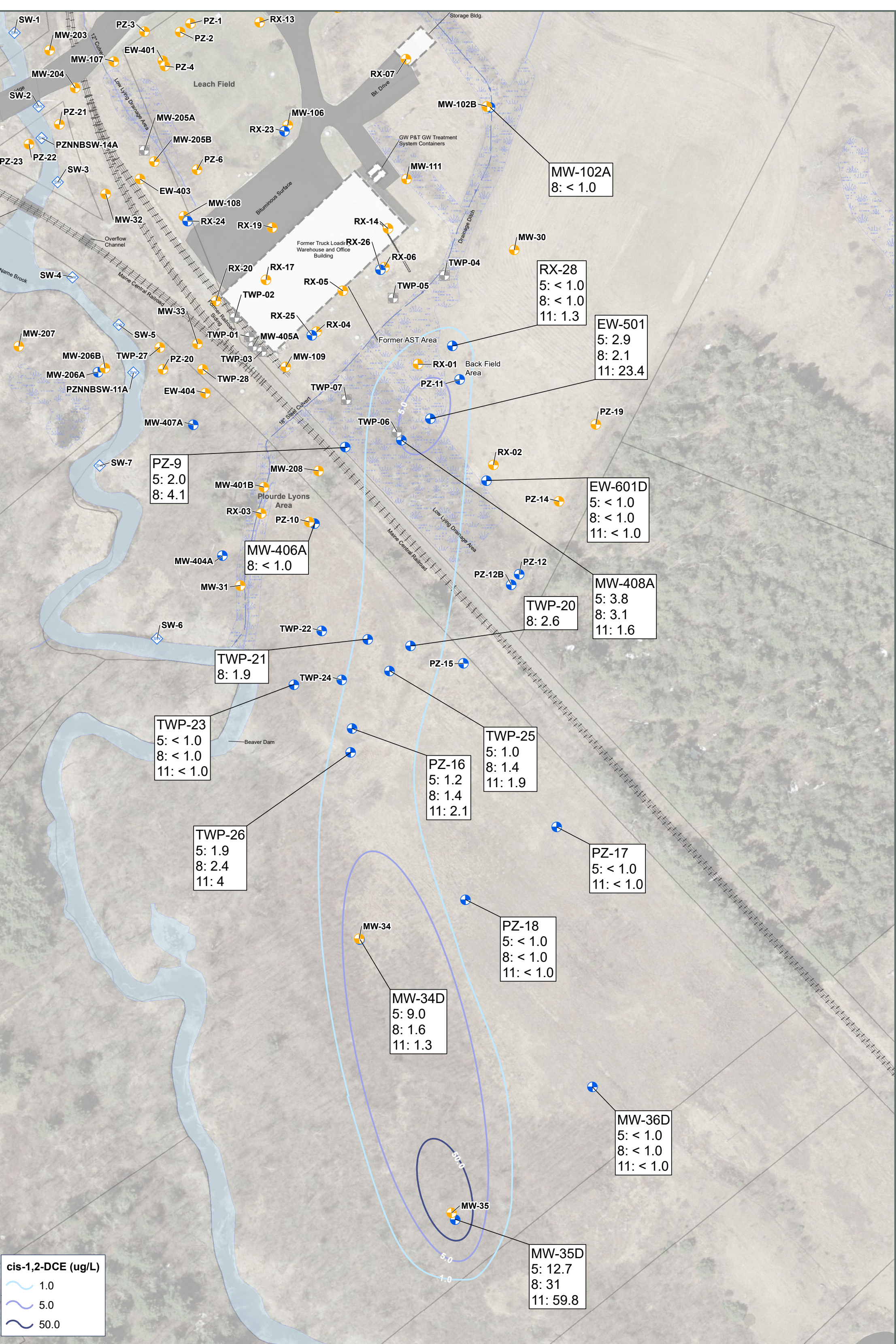
Groundwater & Environmental Services, Inc.



Tetrachloroethylene (PCE)
2021



Trichloroethylene (TCE)
2021



cis-1,2-Dichloroethene (cis-1,2-DCE)
2021

DEGRADATION PATHWAY

With the exception of residual concentrations at well RX-28 reaching 0.80 ppb, vinyl chloride is non-detect in the deep aquifer based on 2017 data.

Notes:
 1. Concentrations are in micrograms per liter (ug/L)
 2. Labels indicate the month (May or November) of sample result (i.e., 5: and 11:)
 3. The Maine Exposure Guideline (MEG) for PCE, TCE, and cis-1,2-DCE is 40 ug/L, 4 ug/L, and 10 ug/L, respectively.
 4. Isoconcentration maps are based on current concentrations and, where data is not available, based on historical concentrations. The actual extent of impacts may vary.

Sources:
 Aerial Photo: 2001, Maine Office of Geographic Information Systems (MEGIS)
 Lewiston GIS, City of Lewiston Department of Public Works
 BASF File: Lewiston Basemap.dwg, 8/23/2011

- Legend**
- Shallow Water Bearing Unit Monitoring Well
 - Deep Aquifer Monitoring Well
 - Abandoned Monitoring Well
 - Surface Water Sample Location
 - Former Building Footprint
 - Railroad
 - Surface Water
 - Approximate Wetlands Area
 - Parcel Boundaries
 - Roads, Bridges, and Drives

**Chlorinated Ethene Concentrations
Deep Groundwater 2021**

**Former Hamlet & Hayes Site
55 Crowley Road
Lewiston, Maine**

Drawn
GKS

Designed
DMC

Approved
BJH

Date
6/8/22

Figure
9

Scale In Feet (Approximate)

Groundwater & Environmental Services, Inc.

L:\Projects\BASF-HamletHayes\BASF-HamletHayes\GIS\BASF_Lewiston_Portal_2021_Deep_Chlorinated_Ethene.mxd_Scale_1:200_08/02/22_4:58:37 PM_CS\swain_mjd_1083131171.dwg



Tables



Table 1
Summary of Surface Water Analytical Data (2021)

Former Hamblet & Hayes Site
 55 Crowley Road
 Lewiston, Maine

Monitoring Location (Upstream to Downstream):				SW-1	PZNNBSW-14A	SW-5	PZNNBSW-11A	SW-7
Sample Date:				11/1/2021	11/3/2021	11/1/2021	11/4/2021	11/4/2021
Analyte	Units	ME-DEP CH584 SURFWATR HHC WATER AND ORGANISM *	ME-DEP CH584 SURFWATR HHC ORGANISM ONLY **					
Volatile Organic Compounds (SW8260)								
1,1,1,2-Tetrachloroethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	0.2	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	0.53	5.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	300	10,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2,4-Trichlorobenzene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromo-3-chloropropane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	1,000	2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	9.9	430	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	0.89	20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichlorobenzene	µg/L	6	9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	300	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	µg/L	NE	NE	< 130	< 130	< 130	< 130	< 130
2,2-Dichloropropane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone	µg/L	NE	NE	< 10	< 10	< 10	< 10	< 10
2-Chlorotoluene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Hexanone	µg/L	NE	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4-Methyl-2-pentanone	µg/L	NE	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acetone	µg/L	NE	NE	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	0.57	10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	0.93	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	6.8	77	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon Disulfide	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon tetrachloride	µg/L	0.4	3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	60	2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	1.7
cis-1,3-Dichloropropene	µg/L	0.26 ⁽¹⁾	7.7 ⁽¹⁾	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/L	0.79	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	53	83	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/L	0.006	0.006	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Iodomethane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Isopropylbenzene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene bromide	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	µg/L	20	800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene	µg/L	NE	NE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
n-Propylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
o-Xylene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
sec-Butylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Styrene	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethene	µg/L	8.6	19	< 1.0	< 1.0	2.1	< 1.0	< 1.0
Toluene	µg/L	54	340	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	2,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	0.26 ⁽¹⁾	7.7 ⁽¹⁾	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	0.6	4	< 1.0	< 1.0	1.4	< 1.0	< 1.0
Trichlorofluoromethane	µg/L	NE	NE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl Acetate	µg/L	NE	NE	< 10	< 10	< 10	< 10	< 10
Vinyl Chloride	µg/L	0.022	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	µg/L	NE	NE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

* = **Bolded** concentrations or reporting limits exceed Maine - Chapter 584: Surface Water Quality Criteria for Toxic Pollutants. Human Health For Consumption of: Water and Organisms. Effective February 16, 2020.
 ** = **Shaded** concentrations or reporting limits exceed Maine - Chapter 584: Surface Water Quality Criteria for Toxic Pollutants. Human Health For Consumption of: Organisms Only. Effective February 16, 2020.
 < = Not detected at the indicated reporting limit.
 J = Laboratory estimated concentration.
 NE = Applicable regulatory standard or guideline is not established.
 µg/L = micrograms per liter.
 (1) Standard for 1,3-Dichloropropene, all forms.

Table 2
Summary of Groundwater Gauging Data (2021)

Former Hamblet & Hayes Site
 55 Crowley Rd
 Lewiston, Maine

Monitoring Well Shallow Water Bearing Zone:

Well ID	Reference Elevation (ft)	5/3/2021				8/10/2021				11/1/2021 - 11/5/2021			
		Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)	NAPL Depth (ft)	Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)	NAPL Depth (ft)	Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)	NAPL Depth (ft)
EW-403	191.67	1.83	189.84	ND	ND	Not measured				1.93	189.74	ND	ND
EW-404	193.34	2.96	190.38	ND	ND	Not measured				Not measured			
MW-101	198.78	4.13	194.65	ND	ND	Not measured				4.92	193.86	ND	ND
MW-32	193.10	Not measured				Not measured				Not measured			
MW-33 ⁽²⁾	191.47	2.61	188.86	ND	ND	Not measured				2.43	189.04	ND	ND
MW-34 ⁽⁴⁾	193.19	3.31	189.88	ND	ND	Not measured				3.39	189.80	ND	ND
MW-35 ⁽⁴⁾	192.83	4.46	188.37	ND	ND	Not measured				5.03	187.80	ND	ND
MW-102B	193.82	Not measured				Not measured				Not measured			
MW-106	194.63	1.48	193.15	ND	ND	Not measured				1.64	192.99	ND	ND
MW-107	192.15	Not measured				Not measured				Not measured			
MW-108	194.05	Not measured				Not measured				Not measured			
MW-109	195.04	4.10	190.94	ND	ND	Not measured				4.21	190.83	ND	ND
MW-111	195.95	4.16	191.79	ND	ND	Not measured				5.61	190.34	ND	ND
MW-204	193.59	7.12	186.47	ND	ND	Not measured				6.39	187.20	ND	ND
MW-206B	189.96	5.70	184.26	ND	ND	Not measured				Not measured			
MW-208	194.55	5.09	189.46	ND	ND	Not measured				5.31	189.24	ND	ND
MW-401B	191.01	3.53	187.48	ND	ND	Not measured				3.34	187.67	ND	ND
PZ-4	193.35	Not measured				Not measured				Not measured			
PZ-6	200.41	Not measured				Not measured				Not measured			
PZ-10	194.84	5.90	188.94	ND	ND	Not measured				5.91	188.93	ND	ND
PZ-20	190.45	4.83	185.62	ND	ND	Not measured				5.63	184.82	ND	ND
PZ-21	191.14	5.74	185.40	ND	ND	Not measured				5.23	185.91	ND	ND
PZ-23	189.59	4.09	185.50	ND	ND	Not measured				3.75	185.84	ND	ND
RX-01 ⁽¹⁾	192.82	3.25	189.57	ND	ND	Not measured				3.35	189.47	ND	ND
RX-02 ⁽¹⁾	193.43	Not measured				Not measured				Not measured			
RX-03 ⁽¹⁾	188.93	4.69	184.24	ND	ND	Not measured				3.36	185.57	ND	ND
RX-04 ⁽¹⁾	196.64	Not measured				Not measured				Not measured			
RX-05 ⁽¹⁾	197.20	4.59	192.61	ND	ND	Not measured				5.03	192.17	ND	ND
RX-06 ⁽¹⁾	196.81	Not measured				Not measured				Not measured			
RX-07	196.93	4.51	192.42	ND	ND	Not measured				4.94	191.99	ND	ND
RX-09	199.59	Not measured				Not measured				Not measured			
RX-10 ⁽¹⁾	199.86	6.40	193.46	1.16 ⁽⁵⁾	5.24 ⁽⁵⁾	Not measured				Not measured			
RX-12 ⁽¹⁾	191.66	1.82	189.84	ND	ND	Not measured				2.16	189.50	ND	ND
RX-13	197.47	4.84	192.63	ND	ND	Not measured				5.32	192.15	ND	ND
RX-19	195.27	4.73	190.54	ND	ND	Not measured				4.66	190.61	ND	ND
RX-20 ⁽¹⁾	195.26	4.44	190.82	ND	ND	Not measured				4.71	190.55	ND	ND
TWP-27 ⁽³⁾	188.10	Not measured				Not measured				Not measured			
TWP-28 ⁽³⁾	197.08	Not measured				Not measured				Not measured			
Surface Water Stream Gauge	Reference Elevation (ft)	Depth to SW (ft)		SW Elevation (ft)		Depth to SW (ft)		SW Elevation (ft)		Depth to SW (ft)		SW Elevation (ft)	
Bridge	193.45	10.74		182.71		11.17		182.28		10.28		183.17	

Notes:

NAPL = Non aqueous phase liquid

(ft) = feet

ND = Not detected

(1) Top of well casing elevation corrected based on GES survey results obtained on November 14, 2014.

(2) MW-33 installed on January 30, 2018 by Brown and Caldwell

(3) TWP series installed from December 10-14, 2018 by GES

(4) MW-34, MW-34D, MW-35, MW-35D, MW-36D installed from March 30 to April 3, 2020 by GES.

(5) LNAPL detected with interface probe although thickness could not be confirmed visually with bailer due to well obstruction at 2.15 fbg in casing

Table 2
Summary of Groundwater Gauging Data (2021)

Former Hamblet & Hayes Site
 55 Crowley Rd
 Lewiston, Maine

Monitoring Well Deep Aquifer:

Well ID	Measurement Date	5/3/2021				8/10/2021				11/1/2021 - 11/5/2021			
		Reference Elevation (ft)	Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)	NAPL Depth (ft)	Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)	NAPL Depth (ft)	Water Depth (ft)	Groundwater Elevation (ft)	NAPL Thickness (ft)
EW-501	190.20	0.73	189.47	ND	ND	2.36	187.84	ND	ND	3.59	186.61	ND	ND
EW-601D	193.79	4.22	189.57	ND	ND	Not measured				5.39	188.40	ND	ND
MW-34D ⁽⁴⁾	192.95	4.34	188.61	ND	ND	5.53	187.42	ND	ND	5.13	187.82	ND	ND
MW-35D ⁽⁴⁾	192.37	4.00	188.37	ND	ND	5.06	187.31	ND	ND	4.76	187.61	ND	ND
MW-36D ⁽⁴⁾	202.46	14.03	188.43	ND	ND	15.10	187.36	ND	ND	14.81	187.65	ND	ND
MW-102A	193.72	Not measured				3.92	189.80	ND	ND	Not measured			
MW-206A	190.33	Not measured				Not measured				Not measured			
MW-404A	191.03	Not measured				Not measured				Not measured			
MW-406A	195.49	Not measured				Not measured				Not measured			
MW-407A	195.22	Not measured				Not measured				Not measured			
MW-408A	192.35	2.41	189.94	ND	ND	3.96	188.39	ND	ND	3.62	188.73	ND	ND
PZ-9	194.35	5.68	188.67	ND	ND	Not measured				Not measured			
PZ-12	195.33	Not measured ⁽⁶⁾				Not measured ⁽⁶⁾				1.97	193.36	ND	ND
PZ-12B	195.03	Not measured				Not measured				Not measured			
PZ-14	199.64	Not measured				Not measured				Not measured			
PZ-15	193.35	Not measured				Not measured				Not measured			
PZ-16	194.09	4.80	189.29	ND	ND	6.19	187.90	ND	ND	5.88	188.21	ND	ND
PZ-17	200.41	11.44	188.97	ND	ND	Not measured				11.29	189.12	ND	ND
PZ-18	193.67	5.02	188.65	ND	ND	6.59	187.08	ND	ND	6.10	187.57	ND	ND
RX-23 ⁽¹⁾	195.76	Not measured				Not measured				Not measured			
RX-24 ⁽¹⁾	194.40	Not measured				Not measured				Not measured			
RX-25 ⁽¹⁾	196.25	Not measured				Not measured				Not measured			
RX-26 ⁽¹⁾	196.70	Not measured				Not measured				Not measured			
RX-28 ⁽¹⁾	193.13	3.35	189.78	ND	ND	Not measured				4.58	188.55	ND	ND
RX-29 ⁽¹⁾	199.30	Not measured				Not measured				Not measured			
TWP-20 ⁽³⁾	192.77	Not measured				4.95	187.82	ND	ND	Not measured			
TWP-21 ⁽³⁾	196.49	Not measured				8.69	187.80	ND	ND	Not measured			
TWP-22 ⁽³⁾	195.58	Not measured				7.90	187.68	ND	ND	Not measured			
TWP-23 ⁽³⁾	194.15	4.82	189.33	ND	ND	6.32	187.83	ND	ND	5.66	188.49	ND	ND
TWP-24 ⁽³⁾	197.53	Not measured				9.60	187.93	ND	ND	Not measured			
TWP-25 ⁽³⁾	194.94	5.80	189.14	ND	ND	7.20	187.74	ND	ND	6.90	188.04	ND	ND
TWP-26 ⁽³⁾	191.5	2.75	188.75	ND	ND	4.00	187.50	ND	ND	3.65	187.85	ND	ND

Notes:

NAPL = Non aqueous phase liquid

(ft) = feet

ND = Not detected

(1) Top of well casing elevation corrected based on GES survey results obtained on November 14, 2014.

(2) MW-33 installed on January 30, 2018 by Brown and Caldwell

(3) TWP series installed from December 10-14, 2018 by GES

(4) MW-34, MW-34D, MW-35, MW-35D, MW-36D installed from March 30 to April 3, 2020 by GES.



Table 5
Proposed 2022 Site Wide Monitoring Plan
Former Hamblet & Hayes Site
55 Crowley Rd
Lewiston, Maine

Well ID	Frequency Month	VOCs - 4260	Methane, ethene, and ethane	Dissolved Iron - SW 6020A	Dissolved Manganese - SW 6020A	Sulfate - ASTM 516-90	Alkalinity - STD M 2320B	Chloride - E325.2	Total Organic Carbon (TOC) - 9060A	Groundwater Zone	Area of Concern
Groundwater Assessment											
RX-12	Semi-Annual (July & November)	X								Shallow	Northern extent of FFMSB/Former Tank Source Area plume (non-detect)
MW-101	Semi-Annual (July & November)	X								Shallow	FFMSB/Former Tank Source Area core
RX-13	Semi-Annual (July & November)	X								Shallow	Downgradient edge of FFMSB/Former Tank Source Area
PZ-21	Semi-Annual (July & November)	X								Shallow	Downgradient extent at brook from FFMSB/Former Tank Source Area
PZ-23	Semi-Annual (July & November)	X								Shallow	Downgradient extent beyond brook from FFMSB/Former Tank Source Area
MW-106	Semi-Annual (July & November)	X								Shallow	Crossgradient extent of FFMSB/Former Tank Source Area plume
RX-19	Semi-Annual (July & November)	X								Shallow	Crossgradient extent of FFMSB/Former Tank Source Area plume
RX-20	Semi-Annual (July & November)	X								Shallow	Crossgradient extent of FFMSB/Former Tank Source Area plume
RX-07	Semi-Annual (July & November)	X								Shallow	Former Drum Storage Building Area
MW-102B	One time (November)	X								Shallow	Shallow water-bearing zone upgradient extent (confirm dtb)
MW-204	Semi-Annual (July & November)	X								Shallow	Shallow GWP&T System Rebound monitoring
EW-403	Semi-Annual (July & November)	X								Shallow	Shallow GWP&T System Rebound monitoring
EW-404	Semi-Annual (July & November)	X								Shallow	Shallow GWP&T System Rebound monitoring
MW-33	Semi-Annual (July & November)	X								Shallow	Shallow GWP&T System Rebound/Railroad Siding Source Area
PZ-20	Semi-Annual (July & November)	X								Shallow	Downgradient edge along brook of Railroad Siding Source Area
MW-206B	Semi-Annual (July & November)	X								Shallow	Extent beyond No Name Brook at Railroad Siding Source Area
MW-111	Semi-Annual (July & November)	X								Shallow	Former AST Source Area upgradient extent
RX-05	Semi-Annual (July & November)	X								Shallow	Former AST Source Area, core
RX-01	Semi-Annual (July & November)	X								Shallow	Former AST Source Area leading edge of plume in BFA
MW-109	Semi-Annual (July & November)	X								Shallow	Former AST Source Area downgradient edge of plume toward brook
MW-401B	Semi-Annual (July & November)	X								Shallow	Monitor groundwater quality between source areas and PZ-16
RX-03	Semi-Annual (July & November)	X								Shallow	Monitor groundwater quality between source areas and PZ-16
PZ-10	Semi-Annual (July & November)	X								Shallow	Monitor groundwater quality between source areas and PZ-16
MW-102A	One time (November)	X								Deep	Deep Aquifer - Upgradient delineation assessment (confirm dtb)
MW-408A	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
RX-28	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
EW-501	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
EW-601D	Tri-annually (May/July/Nov)	X								Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
PZ-12	Tri-annually (May/July/Nov)	X								Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
PZ-16	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep/Shallow	Deep aquifer (Back Field Area) fate, transport and MNA assessment
PZ-17	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
PZ-18	Tri-annually (May/July/Nov)	X		A	A	A	A	A	A	Deep	Deep aquifer (Back Field Area) fate, transport and MNA assessment
TWP-23	Semi-Annual (July & November)	X								Deep/Shallow	Deep aquifer (Back Field Area) fate, transport and MNA assessment
TWP-25	Semi-Annual (July & November)	X								Deep/Shallow	Deep aquifer (Back Field Area) fate, transport and MNA assessment
TWP-26	Semi-Annual (July & November)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
MW-34	Tri-annually (May/July/Nov)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
MW-34D	Tri-annually (May/July/Nov)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
MW-35	Tri-annually (May/July/Nov)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
MW-35D	Tri-annually (May/July/Nov)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
MW-36D	Tri-annually (May/July/Nov)	X								Deep/Shallow	Deep aquifer (Sentinel Well Area) fate, transport and MNA assessment
Surface water Assessment											
SW-1	Annual (July)	X								Shallow	Surface water - No Name Brook
SW-5	Annual (July)	X								Shallow	Surface water - No Name Brook
SW-7	Annual (July)	X								Shallow	Surface water - No Name Brook
PZNNBSW-11A	Annual (July)	X								Shallow	Surface water - No Name Brook
PZNNBSW-14A	Annual (July)	X								Shallow	Surface water - No Name Brook
Lot 7 Spring	Annula (November)	X								Shallow	Surface water - Spring on Lot 7

Notes:

(1) Field parameters dissolved oxygen, pH, oxidation reduction potential, conductivity, and temperature will be collected during each event.
 A = Indicates the laboratory geochemical parameters will be collected annually from designated wells during the November 2020 sampling event.



Appendix A – Low Flow Sample Data Sheets (May, July, and November 2021)

CALIBRATION TABLE

Date: 5.3.21-5.6.21

Client: BASF

Recorded By: Donald Curtiss

Location: Lewiston ME

Site Number: _____

YSI Serial No: 15E100110

before
After

Date	Conductivity (1000 us/cm)	D.O. (10.0 mg/L)	pH 4 su	pH 7 su	pH 10 su	ORP (240.0)	Turb
5.3.21	1031	10.58	4.15	6.84	10.14	201	0.2
5.4.21	1017	10.78	4.07	6.78	10.18	220	0.1
5.5.21	1022	10.61	4.11	6.91	10.13	219	0.3
5.6.21	1019	10.73	4.13	6.87	10.07	212	0.2

Membrane replacement? [] Yes [] No [N/A] - Optical DO Probe

PID Serial No: _____

Zero Air Calibration (0 ppm)	Span Air Calibration (100 ppm isobutylene, balance air)	Trial Reading with Isobutylene (53 ppm)

LEL Serial No: _____

Zero Air Calibration (0 ppm)	Span Air Calibration (50% LEL, methane)	Trial Reading (50%)

4-gas meters should be Industrial Scientific models only.
Calibration mixture should include Pentane gas.

CALIBRATION TABLE

Date: 5/3/21 - 5/6/21
 Recorded By: PSC

Client: BASF
 Location: Lewisston
 Site Number: 1605501

YSI Serial No: 15A10240

bcf
after 5/3
 5/4
 5/5
 5/6

Conductivity (1000 us/cm)	D.O. (10.0 mg/L)	pH 4 su	pH 7 su	pH 10 su	ORP (240.0)
1055/1000	13.01/10.81	4.20/4.00	7.91/7.00	10.12/10.00	270.2/236.0
999/1000	14.05/11.04	4.19/4.00	6.75/6.99	10.36/10.00	262.5/238.0
915/1000	12.18/11.12	4.16/3.99	6.79/7.00	10.12/10.00	255.1/238.0
956/998	13.14/11.51	4.22/4.00	6.85/7.00	10.08/10.00	265.8/238.1

Membrane replacement? [] Yes [X] No

PID Serial No: _____

Zero Air Calibration (0 ppm)	Span Air Calibration (100 ppm isobutylene, balance air)	Trial Reading with Isobutylene (53 ppm)

LEL Serial No: _____

Zero Air Calibration (0 ppm)	Span Air Calibration (50% LEL, methane)	Trial Reading (50%)

4-gas meters should be Industrial Scientific models only.
 Calibration mixture should include Pentane gas.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Cuffess</u>
DATE: <u>5.3.21</u>	WEATHER: <u>55°F, Raining</u>
MONITORING WELL #: <u>RX-12</u> WELL DEPTH: <u>19.87</u> feet	SCREENED INTERVAL: <u>7.5-21FE</u>
MONITORING WELL PERMIT #: <u>—</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>13.75</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>1.84</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>μS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1254	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	2.80
1305	X		7.17	—	465	—	103.8	—	2.59	—	12.3	—	11.70	—	150	2.80
1310	X		6.39	0.78	498	17	132.9	29.1	2.05	0.59	8.6	3.7	11.33	0.37	150	2.80
1315	X		5.92	0.47	437	11	100.3	27.4	1.79	0.31	9.7	1.1	11.28	0.05	150	2.80
1320	X		5.77	0.15	429	13	171.2	10.9	1.65	0.09	9.9	0.2	11.16	0.12	150	2.80
1325	X		5.70	0.07	416	8	178.4	7.2	1.67	0.02	9.2	0.7	11.00	0.16	150	2.80
1330	X		5.68	0.02	415	1	182.3	3.9	1.65	0.02	9.3	0.1	10.96	0.04	150	2.80
1335	X		5.66	0.02	419	1	184.8	2.5	1.66	0.01	9.5	0.2	10.84	0.12	150	2.80
1340	X															

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled 1340 Total Vol. Purged: 8.90L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>Cloudy, 50°F</u>
MONITORING WELL #: <u>Mw-34</u> WELL DEPTH: <u>15.80</u> feet	SCREENED INTERVAL: <u>3-13 ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm,):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8.5</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.33</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>in 5cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1234	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1245	X		7.14	—	216	—	217.4	—	3.14	—	0.1	—	9.72	—	150	5.77	1.65
1250	X		6.83	-0.31	202	-14	230.0	+12.6	3.40	+0.26	0.4	+0.3	10.05	0.33	150	6.20	2.40
1255	X		6.81	-0.02	193	-9	238.6	+8.6	4.18	+0.78	0.5	+0.1	10.00	-0.05	150	6.21	3.15
1300	X		6.80	-0.01	191	-2	239.1	+0.5	4.30	+0.12	0.2	-0.3	10.08	+0.08	150	6.21	3.90
1305	X		6.80	±0	190	-1	240.0	+0.9	4.37	+0.07	0.3	+0.1	10.18	+0.10	150	6.20	4.65
1310	X	X															

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 1310 Total Vol. Purged: 5.40 L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.5.21</u>	WEATHER: <u>45°F, Raining</u>
MONITORING WELL #: <u>EW-404</u> WELL DEPTH: <u>12.35</u> feet	SCREENED INTERVAL: <u>9.5-14.5</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>6</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>11</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.00</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <i>205/6m</i>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0933	X		-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	150	-	0
0945	X		7.28	-	241	-	234.8	-	7.54	-	0.7	-	7.00	-	150	3.76	1.80
0950	X		7.07	-0.21	241	±0	244.0	+9.2	6.74	-0.80	0.9	+0.2	6.82	-0.18	150	4.01	2.55
0955	X		7.05	-0.02	241	±0	244.3	+0.3	6.41	-0.33	0.5	-0.4	6.84	+0.02	150	4.05	3.30
1000	X		7.04	-0.01	241	±0	245.0	+0.7	6.30	-0.11	0.4	-0.1	6.87	+0.03	150	4.07	4.05
1005	X		7.04	±0	240	-1	245.4	+0.4	6.22	-0.08	0.7	+0.3	6.93	+0.05	150	4.08	4.80
1010	*X																5.55

Comments: Clear, NO odor

Analyses Samples Collected for: NO₃ Sampled @ 1010 Total Vol. Purged: 5.55L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston FIELD PERSONNEL: Donald Curtiss
 DATE: 5.5.21 WEATHER: 45°F Raining
 MONITORING WELL #: Mw-109 WELL DEPTH: 12.00 feet SCREENED INTERVAL: 4-9
 MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppmv): BACKGROUND: N/A PUMP INTAKE DEPTH: 7.00 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.34 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <i>US/Ga</i>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0835	X		-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	150	-	0
0845	X		8.98	-	196	-	180.4	-	7.37	-	0.4	-	8.22	-	150	4.34	1.50
0850	X		7.94	-1.04	190	+4	217.4	+37.0	5.88	-1.49	0.4	±0.0	8.16	-0.06	150	5.58	2.25
0855	X		7.37	8.57 -1.20	197	+7	235.6	+18.2	4.98	-0.90	0.3	-0.1	8.13	-0.03	150	5.71	3.00
0900	X		7.14	8.23 -1.09	202	+5	237.7	+2.1	4.89	-0.09	0.5	+0.2	7.82	-0.31	150	5.83	3.75
0905	X		7.09	8.05 -0.96	204	+2	238.8	+1.1	4.71	-0.18	0.4	-0.1	7.78	-0.05	150	5.94	4.50
0910	X		7.07	8.02 -0.95	205	+1	239.7	+0.9	4.66	-0.05	0.1	-0.3	7.71	-0.07	150	5.97	5.25
0915	X																6.00

Comments: Clear, No odor
Analyses Samples Collected for: VOCs Sampled @ 0915 Total Vol. Purged = 6.00L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F Cloudy</u>
MONITORING WELL #: <u>PZ-17</u> WELL DEPTH: <u>36.70</u> feet	SCREENED INTERVAL: <u>24-34 ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>1.0</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>29</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>11.61</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1144	X		-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	150	-	0
1155	X		8.51	-	105	-	145.7	-	3.29	-	4.0	-	10.47	-	150	19.13	1.65
1200	X		8.07	-0.44	99	-6	171.5	+25.8	2.05	-1.24	8.1	+4.1	10.27	-0.20	150	21.05	2.40
1205	X		8.03	-0.04	107	+8	173.5	+6.0	1.79	-0.26	8.4	+0.3	10.36	+0.09	150	22.10	3.15
1210	X		8.07	+0.04	105	-2	177.3	-0.2	1.69	-0.10	8.2	-0.2	10.44	+0.08	150	24.85	3.90
1215	X		8.12	+0.05	107	+2	174.7	-2.6	1.64	-0.05	7.9	-0.3	10.39	-0.05	150	25.71	4.65
1220	X																5.40

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 1220 Total Vol. Purged: 5.40L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtis</u>
DATE: <u>5.4.21</u>	WEATHER: <u>60°F Partially cloudy</u>
MONITORING WELL #: <u>PZ-9</u> WELL DEPTH: <u>48.15</u> feet	SCREENED INTERVAL: <u>35-45 ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>0.75</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>40</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION : <u>5.67</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <i>µS/cm</i>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1429	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1440	X		8.84	—	99	—	100.8	—	2.79	—	67.3	—	12.92	—	150	21.10	1.65
1445	X		8.72	-0.12	89	-10	129.8	+29.0	1.78	-1.01	58.3	-9.0	12.40	-0.52	150	26.70	2.40
1450			8.69	-0.03	87	-2	143.4	+13.6	1.50	-0.28	50.6	-7.7	12.44	+0.04	150	30.75	3.15
1455			8.66	-0.03	85	-2	157.4	+14.0	1.26	-0.24	43.1	-7.5	12.50	+0.06	150	32.90	3.90
1500																	4.65

Comments: faintly murky, no odor

Analyses Samples Collected for: VOCs Sampled @ 1500 Total Vol. Purged: 4.65L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

1450 pump struggling to pump water due to high elevation head. Shut off pump, let well recover and sampled

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.6.21</u>	WEATHER: <u>50°F Partly cloudy</u>
MONITORING WELL #: <u>RX-01</u> WELL DEPTH: <u>13.0</u> feet	SCREENED INTERVAL: <u>8-13 ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10.50</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>7.32</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µmS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. (L) Purged
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0804	X		-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	150	-	0
0815	X		7.89	-	297	-	204.5	-	5.69	-	10.7	-	8.87	-	150	5.88	1.65
0820	X		7.39	-0.50	288	-9	226.6	+21.1	5.31	-0.38	9.8	-0.9	9.04	+0.17	150	6.43	2.40
0825	X		7.20	-0.19	279	-9	230.6	+4.0	5.08	-0.23	9.4	-0.4	9.25	+0.21	150	6.44	3.15
0830	X		7.11	-0.09	289	+5	234.8	+4.2	3.90	-1.68	11.1	+0.7	8.85	-0.40	150	6.44	3.90
0835	X		7.03	-0.08	274	-10	236.5	+1.7	3.61	+0.21	9.3	-1.8	8.62	-0.23	150	6.45	4.65
0840	X		7.01	-0.02	268	-6	235.1	-1.4	3.51	-0.10	9.1	0.2	8.72	+0.10	150	6.45	5.40
0845	X		6.98	-0.03	271	+3	236.7	+1.6	3.46	-0.05	8.9	-0.2	8.81	+0.09	150	6.45	6.15
0850																	6.90

Comments: Clear, odor

Analyses Samples Collected for: VOCs Sampled @ 0850 Total Vol. Purged: 6.90

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

DHP 01 Control M&S

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtis</u>
DATE: <u>5.6.21</u>	WEATHER: <u>50°F Partially cloudy</u>
MONITORING WELL #: <u>MW-408A</u> WELL DEPTH: <u>50.50</u> feet	SCREENED INTERVAL: <u>37-47 ft</u>
MONITORING WELL PERMIT #: <u>—</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>42</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>2.35</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0712	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
0725	X		8.10	—	151	—	181.1	—	4.04	—	0.8	—	8.09	—	150	2.39	1.95
0730	X		7.90	-0.20	149	-2	204.7	+23.6	2.39	-1.70	0.9	-0.1	8.02	-0.07	150	2.39	2.70
0735	X		7.77	-0.13	150	+1	215.7	+11.0	1.67	-0.67	0.7	-0.2	8.31	+0.29	150	2.39	3.45
0740	X		7.83	+0.06	151	+1	216.4	+0.7	1.53	-0.14	0.9	-0.3	8.32	+0.01	150	2.39	4.20
0745	X		7.85	+0.02	151	±0	215.6	-0.8	1.48	-0.05	0.3	-0.1	8.45	+0.13	150	2.39	4.95
0750	0850	X	7.87	+0.02	152	+1	216.6	+1.0	1.44	-0.04	0.1	-0.2	8.37	-0.08	150	2.39	5.70
0755	0855	X															6.45

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 0755 DIA 0855 Total Vol. Purged: 6.45 Liters

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Cytiss</u>
DATE: <u>5.9.21</u>	WEATHER: <u>45°F Raining</u>
MONITORING WELL #: <u>RX-29</u> WELL DEPTH: <u>46.05</u> feet	SCREENED INTERVAL: <u>41-46</u> ft
MONITORING WELL PERMIT #: <u>—</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppmv): BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>43.50</u> feet below top of casing
HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION : <u>3.38</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0739	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
0750	X		9.81	—	122	—	165.1	—	6.21	—	0.3	—	7.95	—	150	3.42	1.65
7055	X		9.52	-0.29	116	-6	172.0	+6.9	5.66	-0.65	0.1	-0.2	7.84	-0.11	150	3.42	2.90
0800	X		9.40	-0.12	114	-2	167.6	-4.4	5.41	-0.25	0.1	±0	7.83	-0.01	150	3.42	3.15
0805	X		9.43	+0.03	114	±0	165.1	-2.5	5.31	-0.10	0.2	+0.1	7.90	+0.07	150	3.43	3.90
0810	X		9.47	+0.04	115	+1	167.5	+2.4	5.27	-0.04	0.3	+0.1	7.91	+0.01	150	3.43	4.65
0815	X																5.40

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ D815 Total Vol. Purged = 5.90L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F Cloudy</u>
MONITORING WELL #: <u>MW-34D</u> WELL DEPTH: <u>62.00</u> feet	SCREENED INTERVAL: <u>49-59 ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>54</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.32</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <i>uS/cm</i>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1314	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1325	X		7.51	—	307	—	141.3	—	5.01	—	3.2	—	11.64	—	150	4.32	1.65
1330	X		7.24	-0.27	311	+4	126.6	+14.7	1.88	-3.13	3.6	+0.4	11.04	-0.60	150	4.32	2.40
1335	X		7.22	-0.02	316	+5	46.3	-80.3	1.36	-0.52	3.6	±0	11.09	+0.05	150	4.32	3.15
1340	X		7.35	+0.13	344	+28	-4.5	-50.8	1.10	-0.26	3.0	-0.6	11.17	+0.16	150	4.32	3.90
1345	X		7.52	+0.17	350	+6	-22.6	-18.1	1.01	-0.09	0.6	-2.4	11.29	+0.12	150	4.32	4.65
1350	X		7.57	+0.05	354	+4	-27.6	-5.0	0.97	-0.04	0.9	+0.3	11.34	+0.05	150	4.32	5.40
1355	X		7.59	+0.02	358	+4	-30.7	-3.1	0.93	-0.04	0.7	-0.2	11.39	+0.05	150	4.32	6.15
1400	X																6.90

Comments: Clear, odor

Analyses Samples Collected for: VOCs Sampled @ 1400 Total Vol. Purged; 6.90L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtis</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F, Partially cloudy</u>
MONITORING WELL #: <u>PZ-10</u> WELL DEPTH: <u>23.46</u> feet	SCREENED INTERVAL: <u>10-21 ft</u>
MONITORING WELL PERMIT #: <u>—</u> WELL DIAMETER: <u>0.75</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>16</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>6.05</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <i>us/cm</i>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1518	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1530	X		8.14	—	181	—	190.0	—	2.31	—	9.1	—	9.59	—	150	6.54	1.90
1535	X		7.61	-0.53	178	-3	237.4	+47.4	1.66	-0.65	7.9	-1.2	9.08	-0.51	150	6.61	2.55
1540	X		7.46	-0.15	176	-2	256.3	+18.9	1.39	-0.27	8.5	+0.6	9.13	+0.04	150	6.60	3.30
1545	X		7.45	-0.01	177	+1	262.9	+6.6	1.29	-0.10	8.3	-0.2	9.02	-0.11	150	6.60	4.05
1550	X		7.44	-0.01	177	±0	264.4	+1.5	1.26	-0.03	8.9	+0.6	9.09	+0.07	150	6.60	4.80
1555	X																5.55

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 1555 Total Vol. Purged: 5.55L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston FIELD PERSONNEL: Donald Curtis
 DATE: 5.4.21 WEATHER: 50°F cloudy
 MONITORING WELL #: MW-36D WELL DEPTH: 35.90 feet SCREENED INTERVAL: 21-33 ft
 MONITORING WELL PERMIT #: — WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 27.00 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 14.03 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>at 25°C</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0954	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1005	X		6.90	—	234	—	205.7	—	4.56	—	0.1	—	16.05	—	150	14.04	1.65
1010	X		6.78	-0.12	243	+9	205.1	-0.6	2.27	-2.29	0.6	+0.5	10.08	+0.03	150	14.04	2.40
1015	X		6.80	+0.02	245	+2	198.6	-6.5	1.72	-0.55	0.3	-0.3	10.11	+0.03	150	14.04	3.15
1020	X		6.92	+0.12	224	-21	187.7	-10.9	2.21	+0.49	0.3	±0	10.14	+0.03	150	14.03	3.90
1025	X		7.03	+0.11	203	-21	179.0	-8.7	2.32	+0.11	0.6	+0.3	10.07	-0.07	150	14.03	4.65
1030	X		7.06	+0.03	199	-4	177.1	-1.9	2.27	-0.05	0.5	-0.1	10.11	+0.04	150	14.03	5.90
1035	X		7.08	+0.02	197	-2	175.0	-2.1	2.20	-0.07	0.2	-0.3	10.15	+0.04	150	14.03	6.15
1040	X																

Comments: Clear, No odor
Analyses Samples Collected for: VOCs Sampled: 1040 Total Vol. Purged: 6.90 L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.6.21</u>	WEATHER: <u>50°F Partially Cloudy</u>
MONITORING WELL #: <u>Rx-05</u>	WELL DEPTH: <u>10.45</u> feet
MONITORING WELL PERMIT #: <u>—</u>	WELL DIAMETER: <u>2</u> inches
	SCREENED INTERVAL: <u>6-11</u>
MONITORING WELL IS FLUSH TO GRADE	

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8.25</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.32</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. (L) Purged
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0904	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
0915	X		7.56	—	314	—	130.9	—	4.79	—	20.1	—	12.20	—	150	6.22	1.65
0920	X		7.24	-0.32	303	-11	159.9	+29.0	3.98	-0.81	21.1	+1.0	12.32	+0.12	150	7.05	2.40
0925	X		7.06	-0.18	298	-5	174.8	+14.9	4.01	+0.03	19.6	-1.5	12.59	+0.27	150	7.54	3.15
0930	X		7.11	+0.05	300	+2	176.6	+1.8	4.15	+0.14	19.1	-0.05	12.89	-0.20	150	7.97	3.90
0935	X		7.20	+0.09	301	+1	177.1	+0.5	4.03	-0.12	19.5	+0.04	12.48	+0.09	150	8.07	4.65
0940	X		7.25	+0.05	303	+2	178.0	+0.9	3.96	-0.09	19.1	-0.04	12.58	+0.10	150	8.14	5.40
0945	X		7.27	+0.02	304	+1	178.4 178.4	+0.4	3.90	-0.06	18.8	-0.03	12.69	+0.11	150	8.17	6.15
0950	X																6.90

Comments: light turbidity, odor, Brown
Analyses Samples Collected for: VOCs Sampled @ 0950 Total Vol. Purged: 6.90L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

DUP 02 Sampled @ 0950

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston FIELD PERSONNEL: Donald Curtis
 DATE: 5.9.21 WEATHER: 50°F Partially Cloudy
 MONITORING WELL #: MW-208 WELL DEPTH: 15.17 feet SCREENED INTERVAL: 8-13
 MONITORING WELL PERMIT #: WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 10.5 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 5.16 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>at 25°C</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1604	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1615	X		7.62	—	445	—	220.1	—	6.53	—	0.6	—	9.40	—	150	6.97	1.65
1620	X		7.18	-0.44	452	+7	250.3	+30.2	5.05	-0.88	0.2	-0.4	9.01	-0.39	150	7.81	2.40
1625	X		7.05	-0.13	453	+1	263.3	+13.0	5.51	-0.14	0.3	+0.1	8.56	-0.45	150	8.50	3.15
1630	X		7.01	-0.04	453	±0	268.0	+4.7	5.47	-0.04	0.1	+0.2	8.47	-0.09	150	8.95	3.90
1635	X		6.99	-0.02	453	±0	271.8	+3.8	5.54	+0.07	0.3	+0.2	8.39	-0.08	150	9.21	4.65
1640	X																5.40

Comments: Clear, No odor
Analyses Samples Collected for: VOCs Sampled @ 1640 Total Vol. Purged: 5.40L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F Cloudy</u>
MONITORING WELL #: <u>PZ-18</u> WELL DEPTH: <u>59.33</u> feet	SCREENED INTERVAL: <u>47.57</u> ft
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>1.0</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>52</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.04</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1051	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1105	X		7.75	—	95	—	161.6	—	2.94	—	4.5	—	9.56	—	150	14.73	2.10
1110	X		7.73	-0.02	92	-3	159.4	-2.2	1.79	-1.15	5.3	+0.8	9.65	+0.09	150	16.81	2.85
1115	X		7.82	+0.09	92	±0	149.7	-9.7	1.40	-0.39	5.7	+0.4	9.81	+0.16	150	18.75	3.60
1120	X		7.87	+0.05	91	+1	145.2	-4.5	1.31	-0.09	6.2	+0.5	10.00	+0.19	150	20.01	4.35
1125	X		7.90	+0.03	91	±0	141.2	-4.0	1.23	-0.08	5.9	-0.3	9.91	*0.09	150	21.07	5.10
1130	X																

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 1130 Total Vol. Purged = 5.85L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F cloudy</u>
MONITORING WELL #: <u>MW-35</u> WELL DEPTH: <u>19.16</u> feet	SCREENED INTERVAL: <u>3-13ft</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm.):	PUMP INTAKE DEPTH: <u>9.00</u> feet below top of casing
BACKGROUND: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.59</u> feet below top of casing
HEADSPACE: <u>N/A</u>	

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0848	X		-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	150	-	0
0900	X		8.33	-	69	-	113.9	-	8.15	-	2.4	-	8.13	-	150	6.83	1.80
0905	X		7.55	-0.22	71	+2	145.2	+31.3	8.07	-0.08	2.0	-0.4	8.16	+0.03	150	7.10	2.55
0910	X		7.01	-0.54	71	±0	182.2	+37.0	7.99	-0.08	2.6	+0.6	7.97	-0.19	150	7.44	3.30
0915	X		6.70	-0.31	70	-1	205.8	+23.6	7.80	-0.19	6.0	+3.4	8.18	+0.21	150	7.74	4.05
0920	X		6.51	-0.19	69	-1	220.4	+14.6	7.75	-0.05	6.8	+0.8	8.01	-0.17	150	8.02	4.80
0925	X		6.43	-0.08	69	±0	225.8	+5.4	7.71	-0.04	6.7	-0.1	7.98	-0.03	150	8.04	5.55
0930	X		6.38	-0.05	69	±0	228.8	+3.0	7.69	-0.02	6.3	-0.4	7.95	-0.03	150	8.05	6.30
0935	X		6.35	-0.03	68	-1	231.1	+2.3	7.67	-0.02	6.5	+0.2	7.93	-0.02	150	8.05	7.05
0940	X	X															

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 0940 Total Vol. Purged = 7.80L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.5.21</u>	WEATHER: <u>45°F Raining</u>
MONITORING WELL #: <u>RX-19</u> WELL DEPTH: <u>16.60</u> feet	SCREENED INTERVAL: <u>6-18</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm,v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>11.50</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.54</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>uv5/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Total Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1030	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
1040	X		7.56	—	218	—	220.0	—	4.77	—	11.3	—	9.59	—	150	5.37	1.50
1045	X		7.44	-0.12	221	+3	222.7	+2.7	2.92	-1.85	8.4	-2.9	9.61	+0.02	150	5.45	2.25
1050	X		7.31	-0.13	222	+1	224.8	+2.1	2.26	-0.64	6.4	-2.0	9.65	+0.04	150	5.50	3.00
1055	X		7.19	-0.12	219	-3	225.8	+1.0	1.98	-0.26	7.1	+0.7	9.71	+0.06	150	5.53	3.75
1100	X		7.14	-0.05	219	±0	226.4	+0.8	1.90	-0.08	7.4	+0.3	9.91	+0.20	150	5.55	4.25
1105	X		7.11	-0.03	218	-1	227.1	+0.7	1.82	-0.08	7.6	+0.2	9.93	-0.08	150	5.56	5.00
1110	X																5.75

Comments: Clear, No odor

Analyses Samples Collected for: VOCs Sampled @ 1110 Total Vol. Purged = 5.75L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Donald Curtiss</u>
DATE: <u>5.4.21</u>	WEATHER: <u>50°F Cloudy</u>
MONITORING WELL #: <u>MW-35D</u> WELL DEPTH: <u>78.85</u> feet	SCREENED INTERVAL: <u>49.59 ft</u>
MONITORING WELL PERMIT #: <u>—</u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>54</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.00</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>µS/cm</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Vol. Purged (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
0758	X		—	NA	—	NA	—	NA	—	NA	—	NA	—	NA	150	—	0
0810	X		8.62	—	671	—	231.1	—	4.28	—	3.8	—	8.24	—	150	4.00	1.80
0815	X		7.90	-0.72	665	-6	258.4	+27.3	-2.57	-1.71	4.2	+0.4	8.11	-0.13	150	4.00	2.55
0820	X		7.57	-0.33	661	-4	254.3	-4.1	1.86	-0.71	3.8	-0.4	8.17	+0.08	150	4.00	3.30
0825	X		7.46	-0.07	659	-2	243.9	-10.9	1.60	-0.26	3.1	-0.7	8.24	+0.07	150	4.00	4.05
0830	X		7.42	-0.02	658	-1	235.2	-8.2	1.46	-0.14	3.3	+0.2	8.20	+0.02	150	4.00	4.80
0835	X		7.41	-0.01	657	-1	231.2	-4.0	1.43	-0.03	3.5	+0.2	8.29	+0.03	150	4.00	5.55
0840	X		7.40	-0.01	656	-1	230.1	-1.1	1.41	-0.02	3.3	-0.2	8.31	+0.02	150	4.00	6.30
0845	X																

Comments: Clear, odor

Analyses Samples Collected for: VOCs Sampled @ 0845 Total Vol. Purged = 7.05 L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston FIELD PERSONNEL: Donald Curtiss
 DATE: 5.3.21 WEATHER: 50°F Raining
 MONITORING WELL #: MW-204 WELL DEPTH: 19.00 feet SCREENED INTERVAL: 6-16 ft
 MONITORING WELL PERMIT #: — WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 11.50 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.14 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <small>in 5 min</small>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1352	X		—	NA	630	NA	—	NA	—	NA	—	NA	—	NA	150	—
1405	X		5.81	—	630	—	192.2	—	2.11	—	20.0	—	8.97	—	150	8.22
1410	X		5.73	-0.08	632	2	186.0	-6.2	1.54	-0.57	14.2	-5.8	8.75	-0.22	150	8.35
1415	X		5.76	-0.03	633	1	173.2	-12.8	1.30	-0.24	9.8	-4.4	8.74	-0.01	150	8.45
1420	X		5.81	0.05	631	2	155.9	-17.3	1.15	-0.15	10.1	+0.3	8.74	0.00	150	8.52
1425	X		5.83	0.02	631	0	151.4	-4.5	1.13	-0.02	8.9	-1.2	8.71	-0.03	150	8.55
1430	X		5.84	0.01	631	0	148.5	-2.9	1.11	-0.02	9.1	+0.2	8.72	0.01	150	8.56
1435	X		5.84	0.00	630	1	147.0	-1.5	1.10	-0.01	9.7	+0.6	8.71	-0.01	150	8.57
1440	X															

Comments: Clear, faint orange tint, no odor
Analyses Samples Collected for: VOCs Sampled @ 1440 Total Vol. Purged = 7.20L

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston
 DATE: 5-6-21
 MONITORING WELL #: MW-101 WELL DEPTH: 15.47 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches
 FIELD PERSONNEL: PSC
 WEATHER: 50's, P.C.
 SCREENED INTERVAL: 3-13
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: 8 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.08 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) ^{25°C}		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
900	X		6.92	NA	254	NA	101.7	NA	5.79	NA	0.62	NA	8.03	NA	200	4.22
905	X		7.14	0.22	261	7	110.4	8.7	5.62	0.17	1.11	0.49	8.42	0.39	150	4.42
910	X		7.65	0.51	264	3	120.2	9.8	5.50	0.12	0.82	0.29	8.22	0.20	150	4.61
915	X		7.35	0.30	263	1	127.6	7.4	5.44	0.06	0.77	0.05	8.20	0.02	100	4.72
920	X		7.30	0.05	263	0	126.8	0.8	5.48	0.04	0.71	0.06	8.03	0.17	100	4.81
925	X		7.34	0.04	262	1	129.8	3.0	5.44	0.04	0.68	0.03	8.02	0.01	100	4.99
930	X		Sample MW-101													
935	X		Sample DUP 03													
940																

Purge
(L)
0.5
1.5
2.25
3.00
3.50
4.00

Comments: Ureas Odor
 Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

Sample 930 • DUP 03 Coll 935 •

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston
 DATE: 5-6-21
 MONITORING WELL #: RX-13 WELL DEPTH: 4.45 feet
 MONITORING WELL PERMIT #: — WELL DIAMETER: 2 inches
 FIELD PERSONNEL: PSC
 WEATHER: 50's, P.C.
 SCREENED INTERVAL: 6-19.5
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: 12.75 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 19.71 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	<u>Purge (L)</u>
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
815	X		7.18	NA	235	NA	101.1	NA	0.37	NA	15.2	NA	8.58	NA	250	5.11	0.75
820	X		7.21	0.03	238	3	81.3	19.8	0.29	0.08	9.18	6.02	8.68	0.10	150	5.97	2.00
825	X		7.61	0.40	240	2	74.7	6.6	0.30	0.09	8.29	0.87	9.20	0.52	150	6.17	2.75
830	X		7.70	0.09	242	2	71.0	3.7	0.39	0.01	7.89	0.40	9.44	0.24	100	6.45	3.50
835	X		7.64	0.06	240	2	70.2	0.8	0.36	0.03	8.01	0.12	9.27	0.17	100	6.60	4.00
840	X		Sample														
845																	
850																	
855																	

Comments: Clear, Slight odor
Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 840

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston
 DATE: 5-6-21
 MONITORING WELL #: RX-07 WELL DEPTH: 2210 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches
 FIELD PERSONNEL: PSC
 WEATHER: 50's, Pci
 SCREENED INTERVAL: 6-22
 MONITORING WELL IS FLUSH TO GRADE
 PID/FID READINGS (ppm_v): _____ BACKGROUND: N/A
 HEADSPACE: N/A PUMP INTAKE DEPTH: 14 feet below top of casing
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.41 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
720	X		7.62	NA	150	NA	71.9	NA	3.63	NA	26.9	NA	7.84	NA	250	4.70
725	X		7.67	0.05	149	1	107.5	35.6	1.79	1.84	22.1	5.8	7.83	0.9	200	4.88
730	X		7.84	0.17	147	2	105.6	1.9	1.73	0.06	8.61	13.49	7.78	0.15	150	5.12
735	X		7.86	0.02	146	1	106.6	1	1.64	0.11	7.82	0.79	7.85	0.07	150	5.21
740	X		7.95	0.09	145	1	107.1	0.5	1.64	0	5.04	2.78	7.97	0.12	100	5.32
745	X		8.05	0.1	145	0	107.7	0.6	1.61	0.03	5.16	0.12	8.12	0.15	100	5.45
750	X		8.14	0.09	145	0	108.1	0.4	1.60	0.01	4.79	0.37	8.16	0.04	100	5.51
755	X		Sample													
800																

(L)

0.75
2.50
3.00
3.75
4.50
5
5.5

Comments: Clear, slight odor
 Analyses Samples Collected for: Vocs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

Sample 755

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>FSC</u>
DATE: <u>5-6-2021</u>	WEATHER: <u>50'S, P. Cloudy</u>
MONITORING WELL #: <u>EW-403</u>	WELL DEPTH: <u>21.30</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>6</u> inches
	SCREENED INTERVAL: <u>5-20</u>
MONITORING WELL IS FLUSH TO GRADE	

PID/FID READINGS (ppm.v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>12.5</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>1.78</u> feet below top of casing

TIME	Plurina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1000	X		6.35	NA	490	NA	-27.5	NA	2.93	NA	0.91	NA	9.10	NA	250	1.81	0.25
1005	X		7.19	0.84	490	0	-48.7	21.0	0.47	2.46	0.22	0.69	9.58	0.40	100	1.85	1.58
1010	X		7.13	0.06	490	0	-56.0	6.3	0.29	0.20	0.17	0.05	9.56	0.06	100	1.84	2.00
1015	X		7.40	0.27	492	2	-62.3	6.2	0.24	0.03	0.15	0.02	9.37	0.19	100	1.84	2.5
1020	X		7.51	0.11	492	0	-66.2	4.1	0.21	0.03	0.14	0.01	9.02	0.35	100	1.84	3
1025	X		7.52	0.01	492	0	-69.1	2.9	0.20	0.01	0.12	0.02	9.00	0.10 0.00	100	1.84	3.5
1030	X		7.54	0.02	491	1	-71.1	1.9	0.18	0.02	0.11	0.01	9.02	0.02	100	1.84	4.0
1035	X	Sample															
1040																	

Comments: Clear, Strong Odor
Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1035

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSG</u>
DATE: <u>5-4-21</u>	WEATHER: <u>58'S, P.C.</u>
MONITORING WELL #: <u>RZ-20</u>	WELL DEPTH: <u>15.18</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>2</u> inches
	SCREENED INTERVAL: <u>8-13</u>
MONITORING WELL IS FLUSH TO GRADE	
PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>
	HEADSPACE: <u>N/A</u>
	PUMP INTAKE DEPTH: <u>10.5</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.81</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>US/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	<i>Pipe L</i>
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1500	X		6.58	NA	995	NA	-48.0	NA	0.80	NA	81.1	NA	8.38	NA	200	5.79	0.5
1505	X		6.62	0.26	999	4	-52.0	4	0.30	0.50	65.2	15.9	8.55	0.17	100	6.41	1.5
1510	X		6.54	0.8	1006	7	-55.0	3	0.27	0.3	49.1	16.1	8.99	0.44	50	7.08	2.00
1515	X		6.55	0.1	1009	3	-56.9	1.9	0.20	0.7	47.9	1.2	9.09	0.10	50	8.05	2.25
1520	X		6.49	0.06	1010	1	-57.4	0.5	0.22	0.2	45.1	2.8	9.10	0.01	50	9.22	2.50
1525	X		6.48	0.01	1008	2	-57.2	0.2	0.24	0.02	41.2	3.9	9.09	0.01	50	9.69	2.75
1530	X	Sample															
1535																	
1540																	

Comments: Clear, Solids, Odorless
Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1530

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>Sols, Cloudy</u>
MONITORING WELL #: <u>Rx-03</u>	WELL DEPTH: <u>12.98</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>2</u> inches
SCREENED INTERVAL: <u>5-10</u>	
MONITORING WELL IS FLUSH TO GRADE	
PID/FID READINGS (ppm.):	BACKGROUND: N/A
	HEADSPACE: N/A
	PUMP INTAKE DEPTH: <u>7.5</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>9.70</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>US/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1405	X		7.33	NA	472	NA	-55.5	NA	1.47	NA	45.3	NA	8.23	NA	250	5.78	0.5
1410	X		7.10	0.23	458	24	-69.3	13.8	0.22	1.25	12.1	33.2	9.59	1.36	150	6.22	1.75
1415	X		7.09	0.01	457	1	-69.9	0.6	0.17	0.05	17.8	5.7	9.58	0.01	50	7.14	2.50
1420	X		7.05	0.04	439	18	-67.8	2.1	0.13	0.04	49.1	31.3	9.64	0.06	50	7.51	2.75
1425	X		7.03	0.02	432	7	-67.1	0.7	0.13	0	45.2	3.9	9.65	0.01	50	8.11	3.00
1430	X		7.02	0.01	411	22	-63.1	4	0.29	0.16	50.0	4.8	9.17	0.48	50	8.39	3.25
1435	X		6.99	0.03	375	36	-54.1	9	0.65	0.36	84.1	34.1	9.58	0.41	50	8.71	3.50
1440	X		6.94	0.05	326	49	-39.2	14.9	0.80	0.15	62.1	12	9.56	0.02	50	9.12	3.75
1445	X		Sample														

Comments: Grey Tint, Odorless
Analyses Samples Collected for: 1445

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1445

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston DATE: <u>5-24-21</u>	FIELD PERSONNEL: <u>PSC</u> WEATHER: <u>50's, Cloudy</u>
MONITORING WELL #: <u>MW-401B</u> WELL DEPTH: <u>12.98</u> feet MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>5-10</u> MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm _v): _____ BACKGROUND: N/A HEADSPACE: N/A	PUMP INTAKE DEPTH: <u>7.5</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.55</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1315	X		8.24	NA	318	NA	53.0	NA	2.41	NA	12.1	NA	8.52	NA	250	4.71	1.5
1320	X		7.89	0.35	316	2	44.3	8.7	0.69	1.72	5.84	6.26	4.25	0.73	250	5.20	1.75
1325	X		7.57	0.38	317	1	30.4	13.9	0.37	0.32	4.12	1.62	10.08	0.83	100	5.85	2.58
1330	X		7.35	0.10	316	1	29.4	1	0.45	0.08	3.99	0.13	9.96	0.12	100	5.25	3.01
1335	X		7.25	0.10	314	2	32.1	2.7	0.64	0.19	4.17	0.18	9.94	0.02	50	7.44	3.25
1340	X		7.21	0.04	311	3	35.8	3.7	0.54	0.20	4.91	0.74	9.60	0.34	50	7.91	3.75
1345	X		7.23	0.02	308	3	35.1	0.7	0.49	0.05	4.87	0.04	9.54	0.06	50	8.31	4.25
1350	X		7.30	0.07	305	4	37.9	2.8	0.45	0.04	4.44	0.38	9.49	0.05	50	8.79	4.75
1355			Sample														

Comments: Clear, Odorless
Analyses Samples Collected for: VOCs/4260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1355

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>50's, Cloudy</u>
MONITORING WELL #: <u>PZ-16</u>	WELL DEPTH: <u>34.47</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>1</u> inches
	SCREENED INTERVAL: <u>12.5-22.5</u>
	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm,):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>17.5</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.81</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (µS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
940	X		8.01	NA	303	NA	-228.1	NA	0.76	NA	88.5	NA	8.37	NA	250	4.97	0.75
945	X		8.17	0.16	315	12	-243.0	15.1	0.34	0.42	40.7	47.8	8.55	0.18	200	5.02	2.00
950	X		8.17	0	326	11	-229.0	14	0.19	0.15	14.0	36.7	8.53	0.02	200	4.99	3.00
955	X		8.43	0.26	326	0	-225.8	3.2	0.14	0.05	12.1	1.9	8.42	0.11	150	4.97	4.00
1000	X		8.48	0.05	326	0	-223.2	2.6	0.12	0.02	11.7	1.05	8.45	0.03	150	4.97	4.75
1005	X		8.44	0.04	327	1	-220.0	3.2	0.10	0.02	10.5	1.2	8.45	0	150	4.97	5.50
1010	X	Sample															
1015																	
1020																	

Comments:

Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1610

LOW FLOW SAMPLING DATA SHEET

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>50's, Cloudy</u>
MONITORING WELL #: <u>7WP-25</u> WELL DEPTH: <u>3445</u> feet	SCREENED INTERVAL: <u>20-30'</u>
MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>1</u> inches	MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>
	HEADSPACE: <u>N/A</u>
	PUMP INTAKE DEPTH: <u>25'</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.81</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (µS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
855	X		6.71	NA	358	NA	47.2	NA	11.66	NA	159	NA	8.61	NA	250	5.84
900	X		7.21	0.50	379	21	-100.3	147.5	0.36	11.30	62.8		8.77	0.16	150	5.87
905	X		7.47	0.26	386	7	-127.3	27	0.18	0.18	47.4	15.0	8.77	0	150	5.91
910	X		7.61	0.14	387	1	-139.8	12.5	0.13	0.05	5.01	42.79	8.82	0.05	100	5.96
915	X		7.67	0.06	388	1	-146.9	7.1 7.1	0.11	0.02	4.50	0.51	8.77	0.05	100	5.99
920	X		7.73	0.06	388	0	-152.1	5.2	0.11	0	4.06	0.44	8.83	0.06	100	6.03
925	X	Sample														
930																
935																

Page
 (L)
 0.75
 2.00
 2.75
 3.50
 4.00
 4.50

Comments: Clear, odorless

Analyses Samples Collected for: Volts/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 925

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>50's, cloudy</u>
MONITORING WELL #: <u>TWP-23</u>	WELL DEPTH: <u>32.18</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>1</u> inches
SCREENED INTERVAL: <u>20-30'</u>	
MONITORING WELL IS FLUSH TO GRADE	

PUMP INTAKE DEPTH: <u>25'</u> feet below top of casing	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.94</u> feet below top of casing	HEADSPACE: <u>N/A</u>
BACKGROUND: <u>N/A</u>		
PUMP INTAKE DEPTH: <u>25'</u> feet below top of casing		

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY <u>µS/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
800	X		8.55	NA	138	NA	170.6	NA	5.49	NA	544	NA	8.01	NA	250	5.25	0.75
805	X		7.45	1.10	89	49	188.2	17.6	1.20	4.29	847	302	8.27	0.26	200	5.41	2.00
810	X		6.73	0.72	91	2	194.8	6.6	0.74	0.46	506	341	8.28	0.01	100	5.35	3.00
815	X		6.38	0.45	109	18	169.2	15.6	0.41	0.34	412	94	8.38	0.10	100	5.29	3.50
820	X		6.32	0.06	122	23	159.6	0.6	0.41	0.00	195	217	8.43	0.05	100	5.28	4.00
825	X		6.30	0.02	130	8	149.2	10.4	0.31	0.10	151	44	8.50	0.07	100	5.25	4.50
830	X		6.30	0	141	11	143.1	6.1	0.28	0.03	99.4	57.6	8.56	0.06	100	5.28	5.00
835	X		6.32	0.02	145	4	145.0	1.9	0.26	0.02	95.1	4.3	8.66	0.10	100	5.28	5.50
840	X		Sample														

Comments: Grey tint, odorless

Analyses Samples Collected for: Voc full list / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 840

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston DATE: <u>5-3-21</u>	FIELD PERSONNEL: <u>PSC</u> WEATHER: <u>50's Cloudy/Drizzle</u>
MONITORING WELL #: <u>P2-23</u> WELL DEPTH: <u>15.02</u> feet MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>7.5-12.5</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v): BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10</u> feet below top of casing <u>4.09</u> DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.09 <u>4.09</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Rise (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1235	X		7.84	NA	2209	NA	0.5	NA	3.78	NA	63.7	NA	7.48	NA	250	4.91	0.75
1240	X		6.53	1.31	2204	5	13.5	13.0	2.14	1.63	51.8	11.9	7.78	0.30	150	5.16	2.00
1245	X		6.30	0.23	2160	44	16.3	2.8	1.86	0.28	47.9	3.9	7.92	0.14	100	5.21	2.75
1250	X		6.21	0.09	2080	80	18.4	2.1	1.43	0.43	40.5	7.4	7.90	0.02	100	5.30	3.25
1255	X		6.15	0.06	1980	100	22.0	3.6	1.09	0.36	33.5	7.0	7.81	0.09	100	5.37	3.75
1300	X		6.14	0.01	1896	84	23.2	1.2	0.85	0.24	30.9	2.6	7.86	0.05	100	5.41	4.25
1305	X		6.14	0	1859	36	25.2	25.2	0.57	0.28	27.8	3.1	7.87	0.01	100	5.47	4.75
1310	X		6.14	0	1799	60	27.4	2.2	0.43	0.34	22.1	5.7	7.94	0.07	100	5.49	5.25
1315	X		Sampled														

Comments: Clear, Iron-colored Solids, No odor
Analyses Samples Collected for: VOCs/8260 (full list)

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1315

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-3-21</u>	WEATHER: <u>50's, Cl - Rain</u>
MONITORING WELL #: <u>PZ-21</u>	WELL DEPTH: <u>14.90</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>2</u> inches
SCREENED INTERVAL: <u>7-12'</u>	
MONITORING WELL IS FLUSH TO GRADE	
PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>
	HEADSPACE: <u>N/A</u>
	PUMP INTAKE DEPTH: <u>9.5</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.74</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (µS/cm) <u>25°C</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1330	X		6.29	NA	456	NA	31.4	NA	1.15	NA	5.60	NA	6.51	NA	250	6.51	0.75
1335	X		6.25	0.04	433	23	29.4	2.0	0.39	0.76	7.91	2.31	6.86	0.35	100	7.22	2.00
1340	X		6.24	0.01	391	42	27.0	2.4	0.30	0.09	6.85	1.06	6.79	0.67	100	7.53	2.50
1345	X		6.24	0.00	390	1	26.3	6.7	6.30	0.00	5.91	0.94	6.84	0.05	100	7.67	3.00
1350	X		6.24	0.00	381	9	24.7	1.6	0.37	0.07	5.10	0.81	6.80	0.04	100	7.70	3.50
1355	X		6.23	0.01	382	1	24.1	0.6	0.39	0.02	6.00	0.90	6.71	0.09	100	7.71	4.00
1400	X		6.23	0.00	373	9	22.6	1.5	0.39	0.00	6.50	0.50	6.78	0.07	100	7.71	4.50
1405	X		6.23	0.00	375	2	22.1	0.5	0.40	0.01	6.61	0.11	6.71	0.07	100	7.72	5.00
1410	X	Sample															

Comments: Clear, Odorless

Analyses Samples Collected for: VOCs / 8260 (full list)

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1410

[Signature]

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston FIELD PERSONNEL: PSC
 DATE: 5-4-21 WEATHER: 50's, Cloudy
 MONITORING WELL #: EW-501 WELL DEPTH: 17.12 feet ^{- Possibly 665 ft. + 43} SCREENED INTERVAL: 39-45
 MONITORING WELL PERMIT #: WELL DIAMETER: 6 inches MONITORING WELL IS FLUSH TO GRADE
 PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 40 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 0.78 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY ^{US} _{-(mS/cm)} ^{ch}		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1215	X		8.74	NA	154	NA	42.9	NA	4.77	NA	5.74	NA	8.50	NA	250	0.78	1.00
1220	X		8.84	0.10	155	1	41.0	1.9	0.51	4.26	1.78	3.94	8.68	0.18	200	0.78	1.25
1225	X		8.74	0.10	155	0	37.5	3.5	0.36	0.15	4.83	0.10	8.62	0.06	200	0.76	2.25
1230	X		8.53	0.21	155	0	32.0	5.5	0.23	0.13	2.07	0.29	8.69	0.07	200	0.76	3.25
1235	X		8.74	0.21	155	0	23.8	8.2	0.19	0.04	2.04	0.05	8.76	0.07	200	0.78	4.25
1240	X		8.80	0.06	155	0	18.9	3.8	0.27	0.02	2.24	0.20	8.74	0.02	200	0.78	5.25
1245	X		8.85	0.05	155	0	16.1	2.8	0.15	0.02	2.41	0.17	8.76	0.02	200	0.75	6.25
1250	X		Sample														
1255																	

Comments: clear, colorless, Solids
Analyses Samples Collected for: Vocs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1250.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston FIELD PERSONNEL: PSC
 DATE: 5-4-21 WEATHER: 50'S, Cloudy
 MONITORING WELL #: EW-601D WELL DEPTH: 44.57 feet SCREENED INTERVAL: 34-44
 MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 39 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.22 feet below top of casing

TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (<u>us/cm</u>)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1135	X	8.52	NA	147	NA	14.9	NA	5.67	NA	4.15	NA	8.69	NA	250	4.75	0.75
1140	X	8.74	0.22	139	8	13.1	1.8	5.49	0.18	7.19	3.04	8.76	0.07	200	5.26	2.00
1145	X	8.76	0.04	144	5	18.4	5.3	5.30	0.19	1.84	5.96	9.25	0.49	150	5.21	3.00
1150	X	8.71	0.07	146	2	23.9	5.5	5.39	0.09	1.89	0.05	9.26	0.01	150	5.22	3.75
1155	X	8.75	0.04	146	0	25.3	11.4	5.30	0.09	1.91	0.02	9.36	0.10	150	5.22	4.50
1200	X	Sample								1.91						
1205																
1210																
1215																

Comments:
Analyses Samples Collected for: VOCs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1200

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>50'S, Cloudy</u>
MONITORING WELL #: <u>TWP-26</u>	WELL DEPTH: <u>35.99</u> feet
MONITORING WELL PERMIT #: <u>-</u>	SCREENED INTERVAL: <u>25-35</u>
WELL DIAMETER: <u>1</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>2.78</u> feet below top of casing

TIME	Plurina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1020	X		8.10	NA	349	NA	-70.3	NA	2.22	NA	41.7	NA	8.81	NA	250	2.78
1025	X		8.06	0.04	347	2	-138.0	67.7	0.30	1.92	30.8	10.9	9.22	0.41	200	2.78
1030	X		8.09	0.03	350	3	-160.6	22.6	0.14	0.16	22.1	8.7	8.85	0.37	200	2.78
1035	X		8.10	0.01	350	0	-168.2	7.6	0.11	0.03	9.41	12.49	8.95	0.10	200	2.78
1040	X		8.10	0	349	1	-171.5	3.2	0.12	0.01	8.79	6.61	9.07	0.12	200	2.78
1045	X		8.11	0.1	350	1	-174.2	2.8	0.11	0.01	8.08	0.71	9.10	0.03	200	2.78
1050	X	Sample														
1055																
1100																

Comments: Clear/Odorless VOCs/82.60

Analyses Samples Collected for: _____

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1050

LOW FLOW SAMPLING DATA SHEET

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-4-21</u>	WEATHER: <u>50's, Cloudy</u>
MONITORING WELL #: <u>MW-206B</u>	WELL DEPTH: <u>17.69</u> feet
MONITORING WELL PERMIT #: <u>—</u>	WELL DIAMETER: <u>2</u> inches
SCREENED INTERVAL: <u>10-15</u>	
MONITORING WELL IS FLUSH TO GRADE	
PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>
	HEADSPACE: <u>N/A</u>
	PUMP INTAKE DEPTH: <u>12.5</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.69</u> feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>4.3/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1555	X		7.00	NA	313	NA	-81.1	NA	0.26	NA	29.1	NA	8.24	NA	200	6.55	0.50
1600	X		6.79	0.21	305	8	-90.3	9.2	0.20	0.06	28.1	1.0	8.37	.13	200	7.21	1.50
1605	X		6.78	0.01	303	2	-94.5	4.2	0.20	0	27.3	0.8	9.38	1.01	150	7.86	2.50
1610	X		6.79	0.01	304	1	-97.6	3.1	0.18	0.02	25.8	1.5	9.42	0.04	50	8.12	3.25
1615	X		6.80	0.01	305	1	-100.1	2.5	0.16	0.02	24.1	1.7	9.29	0.13	50	8.61	3.5
1620	X	Sample															
1625																	
1630																	
1635																	

Comments: Clear, No odor
Analyses Samples Collected for: VOCs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1620

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-5-21</u>	WEATHER: <u>50'S, Rain</u>
MONITORING WELL #: <u>MW-33</u>	WELL DEPTH: <u>12.80</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>1.75</u> inches
SCREENED INTERVAL: <u>3-13</u>	
MONITORING WELL IS FLUSH TO GRADE	

PID/FID READINGS (ppm_v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>2.75</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1015	X		7.11	NA	59	NA	40.4	NA	2.50	NA	51.0	NA	6.82	NA	200	2.91
1020	X		6.55	0.56	55	4	62.0	21.6	1.91	59	40.0	11	6.63	0.19	100	3.44
1025	X		6.79	0.24	54	1	75.5	13.5	1.69	0.22	29.8	10.2	6.79	0.16	100	3.52
1030	X		6.18	0.61	52	2	80.3	4.8	1.85	0.26	27.9	1.9	6.70	0.09	100	3.57
1035	X		6.16	0.02	51	1	83.2	2.9	1.96	0.11	28.0	0.1	6.66	0.04	100	3.65
1040	X		6.14	0.02	53	2	85.5	2.3	1.70	0.26	26.9	1.1	6.68	0.02	100	3.70
1045	X		Sample													

Purge
(L)

1.00
2.00
2.50
3.00
3.50
4.00

Comments: Clear, Odorless, Orange Solids, Transcribed from field notebook.

Analyses Samples Collected for: VOCs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 1045.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston DATE: <u>5-5-21</u>	FIELD PERSONNEL: <u>PSC</u> WEATHER: <u>50's, Rain</u>
MONITORING WELL #: <u>Rx-20</u> WELL DEPTH: <u>21.98</u> feet MONITORING WELL PERMIT #: <u>-</u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>3-23</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.): BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>13</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.55</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) <u>us/cm</u>		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
920	X		6.82	NA	130	NA	-12.9	NA	4.29	NA	19.7	NA	8.67	NA	200	5.09
925	X		6.75	0.07	128	2	3.8	16.7	1.73	2.56	21.9	3.2	8.72	0.05	150	5.18
930	X		6.65	0.10	127	1	14.1	10.3	1.46	0.27	20.2	1.7	8.90	0.18	100	5.32
935	X		6.61	0.04	128	1	19.8	5.7	1.43	0.03	25.3	5.1	8.87	0.03	100	5.44
940	X		6.59	0.02	127	1	25.2	6.4	1.47	0.04	23.1	2.2	8.76	0.11	100	5.51
945	X		6.57	0.02	128	1	29.0	3.8	1.35	0.12	21.8	1.3	8.73	0.03	100	5.70
950	X	Sample														

Purge
(L)

1.00
2.00
2.75
3.25
3.75
4.25

Comments: Clear, Odorless, Fine Solids Transcribed from field notebook.
Analyses Samples Collected for: VOCs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 950.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>PSC</u>
DATE: <u>5-5-21</u>	WEATHER: <u>50's, Rain</u>
MONITORING WELL #: <u>MW-111</u>	WELL DEPTH: <u>1390</u> feet
MONITORING WELL PERMIT #: <u>-</u>	WELL DIAMETER: <u>2</u> inches
	SCREENED INTERVAL: <u>6-11</u>
MONITORING WELL IS FLUSH TO GRADE	

PID/FID READINGS (ppm,v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8.5</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.20</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) vs/cm		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
750	X		8.53	NA	237	NA	57.0	NA	1.91	NA	9.50	NA	6.92	NA	250	4.89
755	X		7.32	1.21	223	4	88.9	38.9	0.95	0.96	7.99	1.51	6.70	0.22	150	5.25
800	X		6.74	0.58	223	0	95.8	6.9	0.60	0.35	2.10	5.89	6.65	0.05	100	5.51
805	X		6.64	0.10	222	1	97.1	1.3	0.62	0.02	1.98	0.12	6.62	0.03	100	5.89
810	XX		6.57	0.07	223	0	97.5	0.4	0.56	0.06	1.79	0.19	6.63	0.01	100	6.11

Avg
(L)

0.75
2.00
2.75
3.25
3.75

Comments: Clear, odorless. Transcribed from field notebook.

Analyses Samples Collected for: VOCS/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 8/0.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston
 DATE: 6/5/21
 MONITORING WELL #: MW-106 WELL DEPTH: 2.12 feet ^{NO obstructed pipe Bent}
 MONITORING WELL PERMIT #: — WELL DIAMETER: 2 inches
 FIELD PERSONNEL: PSC
 WEATHER: 50's, Rain
 SCREENED INTERVAL: 6-21
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): _____ BACKGROUND: N/A
 HEADSPACE: N/A
 PUMP INTAKE DEPTH: 13.5 feet below top of casing
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 1.52 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm) ^{us/cm}		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L) ^{DO}		TURBIDITY (NTU) ^{Turb}		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	Purge (L)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
835	X		6.69	NA	272	NA	-7.1	NA	0.86	NA	0.99	NA	7.59	NA	250	1.55	0.75
840	X		6.52	0.17	275	3	-41.2	34.1	1.55	0.69	0.49	0.30	7.40	0.19	100	1.55	2.00
845	X		6.48	0.04	290	15	-49.2	9	0.91	0.64	0.43	0.06	7.52	0.12	150	1.55	2.50
850	X		6.46	0.02	297	7	-55.2	6	1.00	0.09	0.39	0.04	7.63	0.11	150	1.55	3.25
855	X	X	6.49	0.03	298	1	-57.8	2.6	0.95	0.05	0.36	0.03	7.63	0.00	150	1.55	4.00
900																	
905																	
Swap DO and Turb (Transcription Error) (PC)																	

Comments: Clear, Odorless. Transcribed from field notebook
Analyses Samples Collected for: VOCS/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

Sample 855.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston
 DATE: 8-11-21
 MONITORING WELL #: TWP-23 WELL DEPTH: 31.90 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 1 inches

FIELD PERSONNEL: ASC
 WEATHER: 7:15, OVC
 SCREENED INTERVAL: 20-30
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.): BACKGROUND: N/A PUMP INTAKE DEPTH: 25 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 6.39 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
905	X		12.65	NA	465.0	NA	-37.8	NA	1.60	NA	145.93	NA	12.4	NA	140	0.7	6.46
910	X		12.67	0.02	531.0	66	-21.4	15.6	0.84	0.76	67.03	77.90	11.8	0.6	100	1.2	6.50
915	X		12.67	0	526.	5	-13.8	7.6	0.68	0.16	36.36	30.67	11.6	0.2	60	1.5	6.65
920	X		12.66	0	526	0	-10	3.8	0.65	0.03	35.65	0.71	12.0	0.4	60	1.8	6.70
925	X		12.66	0	524	2	-8.2	1.8	0.63	0.02	35.06	0.59	12.0	0	60	2.1	6.75
930	X		12.66	0	521	3	-6.3	1.9	0.61	0.02	34.03	1.03	11.8	0.2	60	2.4	6.78
935	X	Sample															
940																	
945																	

Comments: pH meter on YSD not functioning? Clear, odorless

Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston
 DATE: 8-11-21

FIELD PERSONNEL: PSK
 WEATHER: 70'S, OVC

MONITORING WELL #: TWP-22 WELL DEPTH: 29.35 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 1 inches

SCREENED INTERVAL: 19-29
 MONITORING WELL IS FLUSH TO GRADE

1D/FID READINGS (ppm.v): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: 24 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.96 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		Purge PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
955	X		12.79	NA	366.2	NA	-13.4	NA	1.76	NA	91.53	NA	10.9	NA	180	0.9	7.96
1000	X		12.70	0.9	386.8	20.6	-14.5	6.1	0.83	0.93	38.46	53	11.1	0.2	80	1.3	7.96
1005	X		12.63	0.7	390.9	4	-25.4	5.9	0.70	0.13	11.95	26.5	11.3	0.2	60	1.6	7.96
1010	X		12.69	0.6	393.3	2.5	-26.9	1.5	0.64	0.06	9.00	2.95	11.3	0	60	1.9	7.96
1015	X		12.69	0	394.0	0.7	-34.6	7.7	0.62	0.02	8.54	0.46	11.1	0.2	60	2.2	7.96
1020	X		12.68	0.01	393.6	0.4	-38.2	3.6	0.60	0.02	7.98	0.56	11.2	0.1	60	2.5	7.96
1025	X	Sample															
1030																	
1035																	

Comments: pH meter not functional - clear, odorless

Analyses Samples Collected for: VOCs/8260

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston
 DATE: 8-11-21

FIELD PERSONNEL: PJC
 WEATHER: 70's, ovc

MONITORING WELL #: TWP-25 WELL DEPTH: 12.70 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 1 inches

SCREENED INTERVAL: 20-30
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: 25 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 7.25 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1040	X		12.59	NA	420.4	NA	-21.4	NA	2.79	NA	13.04	NA	12.1	NA	200	1.0	7.30
1045	X		12.64	0.05	400.7	19.7	-39.6	17.8	0.78	~1.5	5.78	6.26	12.5	0.4	100	1.5	7.34
1050	X		12.65	0.01	404.9	4.2	-52.4	12.8	0.68	0.10	5.12	0.66	12.2	0.3	50	1.75	7.38
1055	X		12.64	0.01	404.3	0.6	-60.8	8.4	0.64	0.04	3.79	1.33	12.5	0.3	50	2.00	7.36
1100	X		12.64	0	406.3	2	-70.6	9.8	0.61	0.03	3.93	0.66	12.6	0.1	50	2.25	7.32
1105	X		12.65	0.01	406.3	0	-76.6	6	0.59	0.02	3.73	0.20	12.3	0.3	50	2.50	7.30
1110	X		Sample														
1115																	
1120																	

Comments: pH meter not working, Clear, odorless
 Analyses Samples Collected for: V065/8260

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston

FIELD PERSONNEL: PSL

DATE: 8-11-21

WEATHER: 70's, Cloudy

MONITORING WELL #: TWP-20

WELL DEPTH: 34.40 feet

SCREENED INTERVAL: 25-35

MONITORING WELL PERMIT #: 7

WELL DIAMETER: _____ inches

MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.v): _____

BACKGROUND: N/A

PUMP INTAKE DEPTH: 30 feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION: 5.03 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		Purge PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1125	X		12.66	NA	348.1	NA	-46.7	NA	2.02	NA	15.08	NA	12.0	NA	100	6.5	5.03
1130	X		12.65	0.01	342.8	5.3	-67.5	19.8	0.74	1.28	5.10	9.98	12.2	0.2	80	0.9	5.03
1135	X		12.66	0.01	340.3	2.5	-82.5	15	0.62	0.12	3.03	2.07	11.9	0.3	60	1.2	5.03
1140	X		12.66	0	340.5	0.2	-91.1	8.6	0.59	0.03	2.74	0.29	12.1	0.2	60	1.5	5.03
1145	X		12.66	0	341.1	0.6	-93.3	2.2	0.58	0.01	2.57	0.17	12.1	0	60	1.8	5.03
1150	X	Sample															
1155																	
1200																	
1205																	

Comments: pH meter not functioning

Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston
 DATE: 8.11.21

FIELD PERSONNEL: PSC
 WEATHER: OVC, 70's

MONITORING WELL #: PZ-16 WELL DEPTH: 22.98 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 1 inches

SCREENED INTERVAL: 12.5 - 22.5
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: 17.5 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 6.26 feet below top of casing

TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		Pumping RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
810	X	12.70	NA	317.3	NA	-82.4	NA	2.20	NA	161.56	NA	11.3	NA	120	0.6	6.30
815	X	12.76	0.6	334.3	17	-139.3	~50	0.77	1.33	55.96	106	11.7	0.4	80	1.0	6.36
820	X	12.76	0	348.7	14.4	-144.8	5.5	0.73	0.04	23.91	22.05	11.8	0.1	60	1.3	6.45
825	X	12.66	0.1	364.1	15.4	-144.6	0.2	0.69	0.04	17.38	6.53	11.9	0.1	60	1.9	6.51
830	X	12.67	0.01	370.2	6.1	-143.6	1	0.67	0.02	10.96	6.42	11.7	0.2	60	2.2	6.59
835	X	12.67	0	372.6	2	-143.2	0.4	0.66	0.01	5.91	5.05	11.6	0.1	60	2.5	6.62
840	X	12.68	0.01	372.0	0.6	-142.2	1	0.63	0.03	4.17	1.79	11.5	0.1	60	2.8	6.65
845	X	12.68	0	373.0	1	-141.9	0.3	0.61	0.02	3.61	1.34	11.4	0.1	60	3.1	6.68
850	X	Sample														

Comments: pH meter not functional
 Analyses Samples Collected for: VOCs/8260

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston

FIELD PERSONNEL: PSC

DATE: 8.10.21

WEATHER: Sunny/70's - 80's

MONITORING WELL #: MW-35D WELL DEPTH: 61.60 feet

SCREENED INTERVAL: 49-59

MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches

MONITORING WELL IS FLUSH TO GRADE

D/FID READINGS (ppm_v):

BACKGROUND: N/A

PUMP INTAKE DEPTH: 54 feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION: 50.8 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
130	X		12.65	NA	612	NA	30.5	NA	2.02	NA	10.52	NA	12.2	NA	200	1.00	5.09
135	X		12.63	0.02	581 581	31	30.5 30.5	186.5	0.64 1.35	6.72	4.80	13.7	0.5	150	1.75	5.11	
140	X		12.63	0	580	1	-179.5	23.5	0.58	0.06	6.91	6.19	12.7	0	200 200	2.25	5.13
145	X		12.63	0	576	4	-196.7	17.2	0.55	0.03	5.94	0.97	12.8	0.1	100	2.75	5.14
150	X		12.63	0	575	1	-206.1	9.4	0.53	0.02	5.69	0.26	12.4	0.4	100	3.25	5.15
155	X		12.64	0.01	561	14	-216.0	9.9	0.51	0.02	5.24	0.45	12.3	0.1	100	3.75	5.16
1200	X		Sample														
1205																	
1210																	

Comments: pH meter on YSI disfunctional, clear, No odor

Analyses Samples Collected for: VOCs / 8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston
 DATE: 8-10-21
 MONITORING WELL #: MW-36D WELL DEPTH: 34.90 feet
 MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches
 FIELD PERSONNEL: DSC
 WEATHER: Sunny/80's
 SCREENED INTERVAL: 21-33
 MONITORING WELL IS FLUSH TO GRADE
 PUMP INTAKE DEPTH: 27 feet below top of casing
 DEPTH TO WATER BEFORE PUMP INSTALLATION: 15.10 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		* Purge PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
1245	X		12.41	NA	104.9	NA	-105.2	NA	9.44	NA	3.89	NA	18.6	NA	150	0.25	15.12
1250	X		12.65	0.24	260.6	155.7	-83.6	22.4	1.59	~8	5.12	1.25	12.3	6.3	100	1.25	15.13
1255	X		12.65	0	261.5	0.9	-87.8	4.2	0.88	.71	4.78	0.34	12.3	0	100	1.75	15.15
1230	X		12.66	0.01	261.5	0	-89.8	2	0.78	0.10	5.12	0.34	11.9	0.4	100	2.25	15.17
1235	X		12.66	0	261.8	0.03	-90.6	0.8	0.73	0.05	5.41	0.27	12.0	0.1	100	2.75	15.18
1240	X		12.66	0	260.3	1.5	-90.4	0.2	0.73	0	5.90	0.49	11.9	0.1	100	3.25	15.20
1245		X	Sample														
1250																	
1255																	

Comments: * YSI pH meter not functional. Clear, No odor
 Analyses Samples Collected for: VOCs/8260

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston

FIELD PERSONNEL: ASC

DATE: 8-10-21

WEATHER: 80's, Sunny

MONITORING WELL #:

P2-18

WELL DEPTH: 45.53 feet

SCREENED INTERVAL: 47-57

MONITORING WELL PERMIT #:

WELL DIAMETER: 1 inches

MONITORING WELL IS FLUSH TO GRADE

D/FID READINGS (ppm):

BACKGROUND: N/A

PUMP INTAKE DEPTH: 52 feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION: 6.59 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
300	X		12.68	NA	133.7	NA	-74.3	NA	1.98	NA	18.83	NA	11.4	NA	100	6.65
305	X		12.60	0.08	128.3	5.6	-113.7	16.4	0.79	1.19	21.30	2.47	13.6	2.2	50	6.68
310	X		12.58	0.02	125.4	2.9	-123.7	10	0.71	0.08	18.62	2.68	14.2	0.6	50	6.70
315	X		12.58	0	115.3	10.1	-73.4	7.2	0.64	0.07	20.57	1.89	13.9	0.3	50	6.71
320	X	Sample														
325																
330																
335																
340																

Comments: pH meter not working - clear/odorless

Analyses Samples Collected for: Voc's/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 1.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston

FIELD PERSONNEL: PSL

DATE: 8-10-21

WEATHER: 80is / Sunny

MONITORING WELL #: MW-34D WELL DEPTH: 62.06 feet

SCREENED INTERVAL: 49-59

MONITORING WELL PERMIT #: - WELL DIAMETER: 2 inches

MONITORING WELL IS FLUSH TO GRADE

D/FID READINGS (ppm_v):

BACKGROUND: N/A

PUMP INTAKE DEPTH: 54 feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION: 5.57 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
405	X		12.68	NA	413.2	NA	-79.0	NA	2.03	NA	3.80	NA	11.3	NA	140	0.70	5.61
410	X		12.61	0.07	402.9	10.8	-117.6	38.6	0.89	1.14	4.08	0.28	13.0	1.7	100	1.2	5.64
415	X		12.57	0.04	411.5	8.6	-126.0	9	0.73	0.16	3.72	0.36	14.5	1.5	80	1.6	5.65
420	X		12.58	0.01	413.5	2.0	-125.7	0.3	0.71	0.02	4.07	0.35	14.0	0.5	80	2.0	5.66
425	X		12.58	0	414.7	1.2	-123.8	1.9	0.65	0.06	4.33	0.28	14.2	0.2	80	2.4	5.67
430	X	Sample															
435																	
440																	
445																	

Comments: pH values inaccurate (likely) Meter not calibrating / Elcor - no odor
Analyses Samples Collected for: VOCs/8260

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 1.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston

FIELD PERSONNEL: PSC

DATE: 8-10-21

WEATHER: 80's, P.C.I

MONITORING WELL #: TWP-26 WELL DEPTH: 36.60 feet

SCREENED INTERVAL: 25-35

MONITORING WELL PERMIT #: - WELL DIAMETER: 1 inches

MONITORING WELL IS FLUSH TO GRADE

ID/FID READINGS (ppm.):

BACKGROUND: N/A

PUMP INTAKE DEPTH: 30 feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION: 9.01 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)	
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*			
445	X		12.66	NA	401.4	NA	-63.9	NA	1.70	NA	5.88	NA	12.0	NA	120	0.6	4.04
1456	X		12.65	0.03	394.1	7.3	-70.4	6.5	0.98	0.72	4.16	1.72	13.8	1.8	100	1.1	4.06
455	X		12.55	0.10	401.5	7.4	-80.2	0.98	0.67	0.31	3.19	0.97	15.0	1.2	80	1.5	4.08
500	X		12.54	0.01	405.0	4.5	-83.5	3.3	0.63	0.04	2.98	0.21	15.1	0.01	60	1.8	4.09
1505	X		12.56	0.02	406.1	1.1	-85.6	2.1	0.61	0.02	2.92	0.06	14.8	0.03	60	2.1	4.11
570	X	Sample			406.1												
1575																	
1520																	
1525																	

Comments: pH meter in YSI broken - clear, odorless

Analyses Samples Collected for: Vocs/8260

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston FIELD PERSONNEL: Brian V. Dumas
 DATE: 8/14/21 WEATHER: _____
 MONITORING WELL #: MW-102A WELL DEPTH: 62.25 feet SCREENED INTERVAL: _____
 MONITORING WELL PERMIT #: _____ WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

D/FID READINGS (ppm): _____ BACKGROUND: N/A PUMP INTAKE DEPTH: _____ feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: _____ feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
230			7.58	NA	211	NA	28.6	NA	2.96	NA	7.6	NA	12.86	NA		4.21
235			6.71		209		153.1		2.56		8.2		12.28			4.38
240			6.33		209		238.6		2.46		7.1		12.12			4.41
245			6.17		208		258.9		2.44		7.3		11.97			4.41
250			6.07		208		276.5		2.44		6.9		12.18			4.41
255			5.97		209		287.7		2.43		6.9		11.78			4.43
300			5.81		209		310.7		2.43		6.8		11.72			4.41
305			5.74		209		318.9		2.42		6.7		11.65			4.42

Comments: _____

Analyses Samples Collected for: _____

*Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; $\pm 3\%$ for specific conductivity and temperature; ± 10 mV for redox potential; and $\pm 10\%$ for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of ≤ 0.3 feet.

SAMPLED @ 1305

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston

DATE: 8/11/21

FIELD PERSONNEL: Brian J. Dupp

WEATHER:

MONITORING WELL #: RT-28 WELL DEPTH: 46.02 feet

SCREENED INTERVAL:

MONITORING WELL PERMIT #: WELL DIAMETER: 2 inches

MONITORING WELL IS FLUSH TO GRADE

ID/FID READINGS (ppm_v):

BACKGROUND: N/A

PUMP INTAKE DEPTH: feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION : feet below top of casing

TIME	Purina	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
830	1		8.09	NA	125	NA	41.5	NA	3.34	NA	6.5	NA	12.39	NA		4.97
835			7.62		121		106.1		2.73		6.3		11.66			5.03
840			7.37		127		142.7		1.87		6.3		11.38			5.03
845			7.00		160		190.9		0.48		6.2		11.20			5.03
850			6.80		171		216.9		0.29		6.2		11.16			5.04
855			6.72		178		235.5		0.23		6.3		11.16			5.04
900			6.68		181		245.9		0.19		6.3		11.20			5.04
905			6.69		182		250.0		0.17		6.3		11.27			5.04

Comments:

Analyses Samples Collected for:

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 1.3 feet.

Sampled @ 0905

DUP01 @ 0905

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston

FIELD PERSONNEL: BRIAN V. Dumas

DATE: 8/10/21

WEATHER:

MONITORING WELL #: MW-406A WELL DEPTH: feet

SCREENED INTERVAL:

MONITORING WELL PERMIT #: WELL DIAMETER: 2 inches

MONITORING WELL IS FLUSH TO GRADE

DO/FID READINGS (ppm.):

BACKGROUND: N/A

PUMP INTAKE DEPTH: feet below top of casing

HEADSPACE: N/A

DEPTH TO WATER BEFORE PUMP INSTALLATION : feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
235	/		6.84	NA	507	NA	56.9	NA	0.42	NA	8.7	NA	11.26	NA		7.36
240	/		6.03	.81	509	2	139.8		0.34	.08	7.5	1.2	11.16	.10		7.38
245	/		5.69	.34	511	2	232.8		0.22	.12	6.7	.8	10.91	.25		7.38
250	/		5.66	.03	512	1	244.9	12.1	0.20	.02	7.0	.3	10.86	.05		7.39
255	/		5.65	.01	513	1	253.3	8.4	0.20	.00	6.6	.4	10.89	.03		7.37
300	/		5.67	.02	514	1	265.6		0.19	.01	6.7	.1	10.87	.02		7.37
305	/		5.67	.00	513	1	277.6		0.18	.01	6.7	.0	10.91	.04		7.37
310	/		5.68	.01	515	2	281.1		0.18		6.6	.1	10.92			7.37

Comments:

Analyses Samples Collected for:

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of 0.3 feet.

SAMPLED @ 1310

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>C. WATKINS</u>
DATE: <u>11-1-21</u>	WEATHER: <u>Clear 60°</u>
MONITORING WELL #: <u>MW204</u>	WELL DEPTH: <u>6.39</u> feet <u>19.80</u>
MONITORING WELL PERMIT #: <u> </u>	SCREENED INTERVAL: <u>6-16</u>
WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>11</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>6.39</u> feet below top of casing

TIME	Pumping	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1445	x		6.38	NA	495	NA	26.1	NA	4.85	NA	114	NA	15.43	NA	300	6.50
1450	x		6.12	.26	487	7	37	10.9	4.35	.50	106	8	15.17	.29	300	6.59
1455	x		6.10	.02	487	0	37.5	.5	3.97	.38	89.2	66.8	15.08	.09	300	6.71
1500	x		6.11	.01	489	2	35.4	2.1	3.62	.35	23.3	15.9	15.02	.06	300	6.88
1505	x		6.12	.01	490	1	35.8	.4	3.76	.14	9.8	13.5	14.99	.03	300	7.09
1510	x		6.14	.02	491	1	36.2	.8	3.78	.02	8.7	1.1	15.01	.02	300	7.15
1515	x		6.14	.02	490	1	36.7	.5	3.79	.01	9.0	.3	15.04	.03	300	7.18

Comments:
Analyses Samples Collected for: VOCS sample @ 1520

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston FIELD PERSONNEL: Lynn Walsh
 DATE: 11-1-21 WEATHER: Clear - 60°
 MONITORING WELL #: PZ-21 WELL DEPTH: 15.10 feet SCREENED INTERVAL: 7-12
 MONITORING WELL PERMIT #: NA WELL DIAMETER: 2 inches MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): BACKGROUND: N/A PUMP INTAKE DEPTH: 9 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 5.23 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1545	X		6.21	NA	279	NA	82.9	NA	3.69	NA	17.8	NA	12.74	NA	300	5.44
1550	X		6.96	.75	273	4	109.5	26.6	1.63	2.06	11.4	6.4	12.54	.20	300	5.51
1555	X		6.97	.01	273	0	108.6 108.6	.9	1.61	.02	8.3	3.1	12.55	.01	300	5.51
1600			6.98	.01	273	0	106.4	2.2	1.63	.02	8.0	.3	12.57	.04	300	5.55
1605			7.00	.02	275	2	105.3	1.1	1.59	.04	7.6	.4	12.48	.03	300	5.56

Comments: VOCS sample @ 1610

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-2-21</u>	FIELD PERSONNEL: <u>Liam M. G. G.</u> WEATHER: <u>Clear 40°</u>
MONITORING WELL #: <u>P2-23</u> WELL DEPTH: <u>15</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>7.5 - 12.5</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): HEADSPACE: <u>N/A</u>	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>9</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.75</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0755			6.64	NA	1499	NA	1.7	NA	3.53	NA	7.3	NA	9.61	NA	300	3.88
0800			6.25	.39	1470	31	2.4	2.3	1.40	2.13	4.4	2.9	9.84	.23	300	4.02
0805			6.07	.18	1483	13	2.9	.5	.90	.50	2.8	1.6	10.08	.24	300	4.17
0810			6.07	0	1485	2	2.7	.2	.88	.02	2.9	.1	10.11	.03	300	4.25
0815			6.05	.02	1487	2	2.5	.2	.88	0	2.6	.3	10.13	.02	300	4.37

Comments:
Analyses Samples Collected for: NOCK E11 LIST VIA EPA 8260 Sample @ 0825

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of < 0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-2-21</u>	FIELD PERSONNEL: <u>Liam Walker</u> WEATHER: <u>Clear 50°</u>
MONITORING WELL #: <u>RX03</u> WELL DEPTH: <u>12.05</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>5-10</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm,v):	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.36</u> feet below top of casing	
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0945	X		7.61	NA	322	NA	-9.7	NA	2.73	NA	1.1	NA	10.20	NA	300	3.47
0950	X		7.03	.02	314	8	-11.6	1.9	2.18	.55	1.3	.2	10.28	.08	300	3.49
0955	X		7.07	.04	292	22	-2.2	9.4	.90	1.28	.9	.4	10.36	.08	300	3.50
1005	X		7.07	0	280	12	12.7	14.9	.46	.44	.7	.2	10.51	.15	300	3.52
1010	X		7.05	.02	278	2	14.5	1.8	.46	0	.8	.1	10.56	.05	300	3.52
1015	X		7.03	.02	277	1	14.7	.2	.47	.01	.9	.1	11.03	.47	300	3.54

Comments: NOCs full list via 8260 sample @ 1020

Analyses Samples Collected for: NOCs full list via 8260 sample @ 1020

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>L. MARRAS</u>
DATE: <u>11-2-21</u>	WEATHER: <u>Clear 50°</u>
MONITORING WELL #: <u>PZ-20</u>	WELL DEPTH: <u>15.20</u> feet
MONITORING WELL PERMIT #: <u> </u>	SCREENED INTERVAL: <u>8-13</u>
WELL DIAMETER: <u>1</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10.5</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.63</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1050	X		6.15	NA	81	NA	134.7	NA	4.29	NA	29.3	NA	11.80	NA	300	5.84
1055	X		6.11	.04	85	4	139.6	4.3	4.19	.10	18.4	10.9	11.87	.07	300	5.94
1100	X		6.12	.01	93	8	147.1	7.5	3.38	.80	12.7	5.7	12.08	.21	300	5.99
1105	X		6.13	.01	93	0	147.6	.5	3.34	.04	11.8	.9	12.08	0	300	6.03
1110	X		6.13	0	94	1	148.9	1.3	3.31	.03	11.1	.7	12.06	.02	300	6.06

Comments: full list VOCs via 8260 sample @ 1120

Analyses Samples Collected for: full list VOCs via 8260 sample @ 1120

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Liam Walker</u>
DATE: <u>11-2-21</u>	WEATHER: <u>overcast 50°</u>
MONITORING WELL #: <u>TWP-2525</u> WELL DEPTH: <u>34.50</u> feet	SCREENED INTERVAL: <u>20-30</u>
MONITORING WELL PERMIT #: _____ WELL DIAMETER: <u>1</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): _____	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>25</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>6.90</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1330	x		8.10	NA	276	NA	-84.8	NA	3.79	NA	37.3	NA	10.75	NA	300	7.13
1335	x		8.10	0	274	2	-139.4	54.6	.41	3.38	22.1	15.2	10.63	.12	300	7.22
1340	x		8.10	0	279	5	-144.6	5.2	.35	.06	10.0	12.1	10.61	.02	300	7.34
1345	x		8.10	0	286	7	-88.3	56.3	.51	.16	2.2	7.8	10.21	.40	300	7.40
1350	x		8.11	.01	289	3	-82.9	5.4	.53	.02	1.7	.5	10.13	.08	300	7.44
1355	x		8.12	.01	289	0	-81.1	1.8	.54	.01	1.2	.5	10.11	.02	300	7.46

Comments: Voet's full list via 8260 sample @ 1400

Analyses Samples Collected for: _____

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>C. MARR</u>
DATE: <u>11-2-21</u>	WEATHER: <u>overcast 50°</u>
MONITORING WELL #: <u>EW 501</u>	WELL DEPTH: <u>49.10</u> feet
MONITORING WELL PERMIT #: <u> </u>	SCREENED INTERVAL: <u>34-45</u>
WELL DIAMETER: <u>4</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm,v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>40</u> feet below top of casing	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.59</u> feet below top of casing
	HEADSPACE: <u>N/A</u>		

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1525	x		7.55	NA	159	NA	80.9	NA	9.03	NA	4.7	NA	11.73	NA	300	3.72
1530	x		7.31	.24	173	14	89.7	8.8	7.12	1.91	3.1	1.6	11.43	.30	300	3.91
1535	x		7.30	.01	174	1	91.3	1.6	6.81	.31	3.0	.1	11.41	.02	300	4.05
1540	x		7.30	0	175	1	92.9	1.6	6.82	.01	2.8	.2	11.44	.03	300	4.09
1545	x		7.29	.01	176	1	93	.1	6.83	.01	2.9	.1	11.45	.02	300	4.18

Comments: Full list VOC's via 8260 sample @ - 1555

Analyses Samples Collected for: Full list VOC's via 8260 sample @ - 1555

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>Brian J. Dineen</u>
DATE: <u>11/2/24</u>	WEATHER: <u>38°</u>
MONITORING WELL #: <u>TWP-26</u> WELL DEPTH: <u> </u> feet	SCREENED INTERVAL: <u>25-35</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>1"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.65</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1153	✓		8.26	NA	290	NA	-70.5	NA	4.46	NA	7.97	NA	10.54	NA	300	3.65
1158	✓		8.18	.08	287	.03	-72.3	1.8	1.48	3.18	2.76	5.21	10.47	.07	300	3.66
1203	✓		8.15	.03	286	.01	-70.6	2.7	0.76	0.72	1.17	1.59	10.34	.13	300	3.67
1208	✓		8.15	.00	285	.01	-70.4	.2	0.61	0.15	0.66	.51	10.20	.14	300	3.67
1213	✓		8.15	.00	285	.00	-70.4	.0	0.56	0.05	0.66	.00	9.98	.22	300	3.67
1218	✓		8.16	.01	285	.00	-70.8	.4	0.47	0.09	1.17	.48	10.04	.06	300	3.68
1223			8.16	.00	285	.00	-70.9	.1	0.45	.02	0.80	.37	10.06	.01	300	3.68

Comments:
Analyses Samples Collected for: SAMPLED @ 1223

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Bryan Dunn</u>
DATE: <u>11/2/21</u>	WEATHER: <u>53° Cloudy</u>
MONITORING WELL #: <u>TWP-23</u>	WELL DEPTH: <u>32.15</u> feet
MONITORING WELL PERMIT #: <u> </u>	WELL DIAMETER: <u>1</u> inches
	SCREENED INTERVAL: <u>20-30</u>
	MONITORING WELL IS FLUSH TO GRADE: <u> </u>
PID/FID READINGS (ppm _v): <u> </u>	BACKGROUND: <u>N/A</u>
	HEADSPACE: <u>N/A</u>
	PUMP INTAKE DEPTH: <u>25</u> feet below top of casing
	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.66</u> feet below top of casing

TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1345	✓	6.47	NA	114	NA	84.1	NA	4.20	NA	409	NA	10.55	NA	300	5.66
1350	✓	6.31	.16	96	18	80.3	3.8	1.92	2.28	502	107	9.97	.58	300	6.40
1355	✓	6.33	.03	98	2	89.5	9.2	1.85	.07	470	28	9.98	.01	300	6.41
1400	✓	6.33	.00	100	2	84.1	5.4	1.82	.03	387	83	9.98	.00	300	6.41
1405	✓	6.35	.02	102	2	84.7	.6	1.51	.31	377	10	9.92	.04	300	6.41
1410	✓	6.37	.02	103	1	85.0	.3	1.34	.17	283	94	9.96	.04	300	6.42
1415	✓	6.39	.02	105	2	80.7	4.3	1.33	.01	248	35	9.96	.00	300	6.42
1420	✓	6.41	.02	107	2	72.0	7.3	1.24	.09	219	29	10.11	.15	300	6.42
1425	✓	6.42	.01	111	4	69.8 69.8	2.2	1.16	.08	184	35	10.16	.05	300	6.41
1430		6.45	.03	112	1	70.8	1.0	1.08	.08	164	20	10.11	.05	300	6.41

Comments:
Analyses Samples Collected for: SAMPLES @ 1435

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11/2/21</u>	FIELD PERSONNEL: <u>BRIAN V. JAMES</u> WEATHER: <u>54° Cloudy</u>
MONITORING WELL #: <u>EW-601D</u> WELL DEPTH: <u>47.20</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2"</u> inches	SCREENED INTERVAL: <u>34.44</u> MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppmv): <u> </u> BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>38</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.39</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1513	✓		9.28	NA	95	NA	26.8	NA	5.84	NA	11.0	NA	9.60	NA	300	5.39
1518	✓		9.04	.24	102	7	30.3	3.5	6.76	.82	7.40	3.60	9.48	.12	300	6.89
1523	✓		8.90	.14	103	1	33.8	3.6	7.28	.52	4.12	3.28	9.40	.08	300	6.92
1528	✓		8.87	.03	104	1	36.0	2.1	7.26	.02	4.86	.74	9.37	.03	300	6.91
1533	✓		8.87	.00	107	3	35.3	.07	7.45	.19	5.04	.18	9.37	.04	300	6.90
1538	✓		8.87	.00	107	0	34.5	.08	7.30	.15	5.74	.70	9.33	.00	300	6.90
1543	✓		8.86	.01	108	1	33.9	.06	7.19	.11	5.84	.10	9.33	.00	300	6.87

Comments:
Analyses Samples Collected for: SAMPLED @ 1545

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u> DATE: <u>11-5-21</u>	FIELD PERSONNEL: <u>Liam Walker</u> WEATHER: <u>Clear 35°</u>
MONITORING WELL #: <u>P2-17</u> WELL DEPTH: <u>36.40</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>1</u> inches	SCREENED INTERVAL: <u>24-34</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): <u> </u> HEADSPACE: <u>N/A</u>	BACKGROUND: <u>N/A</u> PUMP INTAKE DEPTH: <u>30</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>11.29</u> feet below top of casing
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TIME	Purification	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0915	x		8.88	NA	74	NA	73.4	NA	3.73	NA	11.4	NA	6.26	NA	300	15.42
0920	x		8.97	.09	72	2	67.6	5.8	1.83	1.90	7.1	4.3	6.86	.60	300	19.37
0925	x		9.10	.13	71	1	50.3	17.3	.56	1.27	3.2	3.9	7.40	.54	300	21.14
0930	x		9.13	.03	73	2	50.6	.3	.57	.01	3.0	.2	7.44	.04	300	22.38
0935	x		9.13	.03	74	1	50.3	.3	.57	0	3.1	.1	7.45	.01	300	23.06
0940	x															

Comments: Analyses Samples Collected for: Full list VOC's via 8260 Sample @ 0945

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-2-21</u>	FIELD PERSONNEL: <u>C. MAYER</u> WEATHER: <u>Clear - 40°</u>
MONITORING WELL #: <u>MW35</u> WELL DEPTH: <u>16.12</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>3-13</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.03</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1135	x		6.75	NA	61	NA	155.6	NA	8.03	NA	17.9	NA	11.15	NA	300	5.88
1140	x		6.51	.24	61	0	157.3	1.7	7.84	.19	8.3	9.6	11.55	.40	300	5.99
1145	x		6.34	.17	61	0	156.8	.5	7.82	.02	11.2	2.9	11.77	.22	300	6.11
1150	x		6.19	.15	58	3	187.8	31.5	7.67	.15	12.3	1.1	12.11	.34	300	6.38
1155	x		6.18	.01	59	1	189.1	1.3	7.63	.04	12.0	.3	12.19	.08	300	6.50
1200	x		6.18	0	60	1	194.1	5	7.62	.01	11.9	.1	12.27	.08	300	6.54

Comments: Analyses Samples Collected for: full list VOC's sample @ 1210

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-3-21</u>	FIELD PERSONNEL: <u>L. Unshar</u> WEATHER: <u>overcast 40°</u>
MONITORING WELL #: <u>P2-10</u> WELL DEPTH: <u>23.46</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>.5</u> inches	SCREENED INTERVAL: <u>10-20</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v): <u> </u> HEADSPACE: <u>N/A</u>	BACKGROUND: <u>N/A</u> PUMP INTAKE DEPTH: <u>15</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: 15 <u>5.91</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1535	x		8.56	NA	219	NA	-136.8	NA	1.18	NA	35.5	NA	10.40	NA	300	6.10
1540	x		8.27	.29	222	3	-133	1.2	.70	.48	17.3	18.2	10.46	.06	300	6.33
1545	x		8.04	.23	223	1	-112.1	20.9	.56	.14	11.2	6.1	10.47	.01	300	6.35
1550	x		7.90	.14	224	1	-100.9	11.2	.51	.05	7.7	3.5	10.47	0	300	6.39
1555	x		7.90	0	224	0	-93.4	7.5	.54	.03	7.3	.4	10.46	.01	300	6.41
1600	x		7.89	.01	224	0	-91.1	2.3	.54	0	7.0	.3	10.45	.01	300	6.48

Comments: Analyses Samples Collected for: full list voc's sample @ 1605

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>L. Walker</u>
DATE: <u>11-3-21</u>	WEATHER: <u>Overcast 45°</u>
MONITORING WELL #: <u>MW 208</u>	WELL DEPTH: <u>15.2</u> feet
MONITORING WELL PERMIT #: <u> </u>	SCREENED INTERVAL: <u>8-13</u>
WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>11</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.31</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1620	X		7.31	NA	366	NA	16.5	NA	1.60	NA	4.3	NA	10.93	NA	300	5.89
1625	X		7.26	.05	367	1	18.2	1.7	.99	.61	4.1	.2	10.93	0	300	6.61
1630	X		7.20	.06	369	2	17.1	1.1	.65	.34	3.2	.9	10.93	0	300	6.90
1635	X		7.18	.02	369	0	17.8	.7	.67	.02	3.0	.2	10.94	.01	300	7.03
1640	X		7.17	.01	370	1	18.0	.2	.66	.01	3.4	.4	10.95	.01	300	7.14

Comments: Full list voc's sample @ 1650

Analyses Samples Collected for: Full list voc's sample @ 1650

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>L. Munn</u>
DATE: <u>11-4-21</u>	WEATHER: <u>Clear 35°</u>
MONITORING WELL #: <u>MW109</u>	WELL DEPTH: <u>212.00</u> feet
MONITORING WELL PERMIT #:	SCREENED INTERVAL: <u>4-9</u>
WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8</u> feet below top of casing	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.21</u> feet below top of casing
	HEADSPACE: <u>N/A</u>		

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0820	X		7.01	NA	166	NA	112.8	NA	5.94	NA	3.7	NA	7.31	NA	300	4.80
0825	X		6.65	.36	170	4	114.6	1.8	4.33	1.61	3.5	.2	8.33	1.02	300	4.89
0830	X		6.53	.12	172	2	115.3	.7	4.03	.3	3.0	.5	9.02	.69	300	5.17
0835	X		6.48	.05	173	1	113.8	1.5	3.50	.53	2.4	.6	9.30	.30	300	5.25
0840	X		6.46	.02	174	1	112.4	1.4	3.31	.19	1.9	.5	9.42	.10	300	5.38
0845			6.45	.01	175	1	112.1	.3	3.29	.02	1.7	.2	9.45	.03	300	5.49
0850			6.45	0	174	1	112.3	.2	3.27	.02	1.8	.1	9.48	.03	300	5.57

Comments: Analyses Samples Collected for: All list voc's sample @ - 0855

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-4-21</u>	FIELD PERSONNEL: <u>Liam Walsh</u> WEATHER: <u>Clear 35</u>
MONITORING WELL #: <u>Rx 01</u> WELL DEPTH: <u>13.00</u> feet	SCREENED INTERVAL: <u>8-13</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm): <u> </u>	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>335</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1210	X		6.83	NA	419	NA	-77.4	NA	1.61	NA	236	NA	10.81	NA	300	4.74
1215	X		6.85	.02	347	72	-91.9	14.5	1.07	.54	55.3	180.7	11.12	.31	300	5.83
1220	X		7.23	.38	216	131	-20.9	71	1.03	.04	332	221	11.17	.05	300	7.02
1225	X		7.20	.03	215	1	-11.9	9	1.06	.03	22.6	10.6	11.23	.06	300	7.24
1230	X		7.19	.01	214	1	-9.3	2.6	1.05	.01	21.4	1.2	11.39	.16	300	7.67
1235	X		7.20	.01	214	0	-7.5	1.8	1.04	.01	21.0	.4	11.47	.08	300	7.93
1240																

Comments: Full list well's sample @ 1240

Analyses Samples Collected for: Full list well's sample @ 1240

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-4-21</u>	FIELD PERSONNEL: <u>L. Maher</u> WEATHER: <u>Clear 35°</u>
MONITORING WELL #: <u>MW408A</u> WELL DEPTH: <u>9.90</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>37-47</u> MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm.): <u> </u> BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.62</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1305	X		8.06	NA	139	NA	-106.5	NA	3.60	NA	45.4	NA	9.78	NA	300	3.66
1310	X		8.04	.02	139	0	-108.1	1.60	1.09	2.51	16.9	28.5	9.70	.08	300	3.70
1315	X		8.13	.09	140	1	-116.3	8.2	.74	.35	8.3	8.6	9.76	.06	300	3.76
1320			8.19	.06	139	1	-118.7	2.4	.53	.21	2.1	6.2	9.81	.05	300	3.78
1325			8.19	0	140	1	-119.6	.9	.57	.02	1.9	.2	9.79	.02	300	3.78
1330			8.22	.03	140	0	-120.9	1.3	.45	.06	1.5	.4	9.79	0	300	3.79

Comments:
Analyses Samples Collected for: full list VOC's sample @ 1340
- obstruction in well - cannot get probe past - old tubing?

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-5-21</u>	FIELD PERSONNEL: <u>Lipman</u> WEATHER: <u>Clear 30°</u>
MONITORING WELL #: <u>RX-20</u> WELL DEPTH: <u>21.90</u> feet	SCREENED INTERVAL: <u>3-23</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm.): <u> </u> BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>15</u> feet below top of casing
HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.71</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0930	X		6.71	NA	135	NA	150.2	NA	2.48	NA	107	NA	9.77	NA	300	5.28
0935	X		6.41	.30	140	5	150.9	.7	1.28	1.20	78	29	10.35	.58	300	5.30
0940	X		6.36	.05	143	3	148	2.90	1.19	.09	36.3	41.7	10.97	.62	300	5.32
0945	X		6.36	0	146	3	133.5	14.5	1.04	.15	32.4	2.1	11.34	.37	300	5.38
0950	X		6.35	.01	146	0	133.2	.3	1.05	.01	39.2	.8	11.40	.06	300	5.44
0955	X		6.35	0	147	1	133.4	.2	1.04	.01	39.8	.6	11.50	.10	300	5.50

Comments: All list vials sample @ 1005

Analyses Samples Collected for:

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>BHAY J. DUNN</u>
DATE: <u>11/3/21</u>	WEATHER: <u>30° CLOUDY</u>
MONITORING WELL #: <u>MW-34</u>	WELL DEPTH: <u>15.7</u> feet
MONITORING WELL PERMIT #:	SCREENED INTERVAL: <u>3-13</u>
WELL DIAMETER: <u>2"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>8 10</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>3.39</u> feet below top of casing

TIME	Purification	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0922	✓		7.38	NA	223	NA	-63.1	NA	2.06	NA	0.0	NA	7.22	NA	300	3.39
0927	✓		7.38	0	232	0	-65.1	2.0	2.12	.06	1.33	1.33	8.61	.61	300	6.01
0932	✓		7.19	19	223	9	-43.3	22.2	1.63	45	3.86	2.53	9.70	.91	300	6.16
0937	✓		6.97	22	181	42	-140	29.3	1.31	32	4.70	1.16	10.20	.50	300	6.96
0942	✓		6.77	20	163	18	13.9	27.9	2.53	1.22	5.40	.70	10.22	.02	300	7.30
0947	✓		6.67	10	155	8	35.9	22.0	4.19	2.46	4.76	.64	10.16	.06	300	7.84
0952			6.66	1	149	6	40.3	4.6	4.86	.77	4.42	.50	9.93	.23	300	7.97
0957			6.58	8	144	5	14.8	4.5	4.95	.09	3.92	.39	9.76	.17	300	8.02

Comments:
Analyses Samples Collected for: SAMPLED @ 1000

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>6/3/24</u>	FIELD PERSONNEL: <u>Brian J. Dean</u> WEATHER: <u>50° Cloudy</u>
MONITORING WELL #: <u>MW-34D</u> WELL DEPTH: <u>61.25</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>49-59</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.): <u> </u>	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.13</u> feet below top of casing
--	---	--

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1243	✓		7.63	NA	283	NA	-123.6	NA	5.59	NA	4.30	NA	10.05	NA	300	5.13
1248	✓		7.89	26	278	5	-98.6	25.0	1.16	4.43	2.48	1.92	9.53	.52	300	5.15
1253	✓		8.00	.11	280	2	-88.3	10.3	0.62	.54	2.26	.22	9.36	.19	300	5.16
1258	✓		8.09	.09	281	1	-77.5	11.8	0.50	.12	1.99	.27	9.27	.09	300	5.15
1303	✓		8.13	.04	281	0	-86.3	9.2	0.49	.01	1.40	.59	9.24	.03	300	5.15
1308	✓		8.13	.00	282	1	-90.6	4.7	0.47	.02	.61	.79	9.20	.04	300	5.15

Comments:
Analyses Samples Collected for: SAMPLES @ 1310

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Brian J. D...</u>
DATE: <u>11/3/21</u>	WEATHER: <u>45° CLOUDY</u>
MONITORING WELL #: <u>Rx-18</u>	WELL DEPTH: <u>106</u> feet
MONITORING WELL PERMIT #:	SCREENED INTERVAL: <u>6-18</u>
WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>12</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.66</u> feet below top of casing

TIME	Pumping	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1447	✓		15.722	NA	190	NA	-16.7	NA	6.44	NA	30.3	NA	13.62	NA	300	4.66
1452	✓		6.88	.34	197	7	63.9	80.6	3.49	2.95	24.2		14.69	1.07	300	6.01
1457	✓		6.83	.05	198	1	67.5	3.6	3.39	.10	16.6		14.85	.16	300	6.10
1502	✓		6.80	.03	198	0	70.2	2.7	3.26	.07	15.2		14.86	.01	300	6.17
1507	✓		6.76	.04	196	2	72.8	2.6	3.10	.16	10.2		14.89	.03	300	6.21
1512	✓		6.74	.02	195	1	74.6	1.8	2.97	.13	9.26		14.83	.06	300	6.22
1517			6.74	.00	185	0	74.3	0.3	2.87	.03	6.79		14.87	.01	300	6.20

Comments:
Analyses Samples Collected for: SAMPLED @ 1520

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Brian V. Dunn</u>
DATE: <u>11/4/21</u>	WEATHER: <u>40° CLEAR</u>
MONITORING WELL #: <u>MW-106</u>	WELL DEPTH: <u>2.12</u> feet
MONITORING WELL PERMIT #:	SCREENED INTERVAL:
WELL DIAMETER: <u>2"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>2</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>1.64</u> feet below top of casing

TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1018		6.37	NA	142	NA	17.3	NA	5.00	NA	289	NA	12.42	NA	300	1.65
1023		6.36	.01	141	1	22.0	4.7	2.33	3.67	35.3	193.7	12.48	.07	300	1.65
1028		6.31	.05	142	1	4.5	17.5	2.82	.49	34.3	61.0	12.52	.03	300	1.65
1033		6.27	.04	143	1	-1.0	5.5	3.62	.20	10.2	24.1	12.54	.02	300	1.64
1038		6.24	.03	146	3	-1.4	.4	3.87	.35	7.79	2.41	12.52	.02	300	1.65
1043		6.23	.01	148	2	-3.4	2.0	4.07	.10	6.36	1.43	12.57	.05	300	1.65
1048		6.22	.01	152	4	-6.5	3.1	4.21	.14	5.35	1.01	12.61	.04	300	1.65

Comments:
Analyses Samples Collected for: SAMPLE @ 1050

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u>	FIELD PERSONNEL: <u>BRIAN V. DOWN</u>
DATE: <u>11/4/21</u>	WEATHER: <u>42° CLEAR</u>
MONITORING WELL #: <u>MW-111</u> WELL DEPTH: <u>13.60</u> feet	SCREENED INTERVAL: <u>6-11</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>10</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.61</u> feet below top of casing

TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
11:04	✓	6.37	NA	206	NA	28.7	NA	16.32	NA	2.10	NA	11.11	NA	300	5.61
11:09	✓	6.30	.07	207	1	40.1	11.4	10.52	5.80	2.02	.08	11.12	.01	300	6.97
11:14	✓	6.28	.02	207	0	45.1	5.0	9.01	1.51	1.81	.21	11.34	.22	300	7.55
11:18	✓	6.27	.01	207	0	48.3	3.2	8.76	.25	1.41	.40	11.43	.09	300	8.01
11:24	✓	6.30	.03	207	0	52.8	.45	9.02	.26	.99	.42	11.47	.04	300	8.30
11:29	✓	6.32	.02	207	0	59.4	6.6	9.67	.65	.61	.38	11.46	.01	300	8.52
11:34		6.33	.01	208	1	62.3	3.1	9.96	.29	.86	.25	11.51	.05	300	8.33

Comments:
Analyses Samples Collected for: SAMPLED @ 1136

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

WELL DIAMETER: 6 inches

CONCENTRATION INTERVAL: 5-20

MONITORING WELL IS FLUSH TO GRADE

BACKGROUND: N/A

HEADSPACE: N/A

PUMP INTAKE DEPTH: 15 feet below top of casing

DEPTH TO WATER BEFORE PUMP INSTALLATION: 1.93 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1201	✓		6.68	NA	372	NA	-27.7	NA	14.65	NA	3.00	NA	10.81	NA	300	1.93
1206	✓		6.70	.02	381	9	-34.3	6.6	11.72	2.93	1.99	1.05	11.00	.09	300	2.26
1211	✓		6.71	.01	385	4	-39.6	5.3	10.28	1.44	1.89	.10	10.98	.02	300	2.38
1216	✓		6.73	.02	385	0	-38.4	0.2	10.07	.21	1.67	.22	11.01	.03	300	2.58
1221	✓		6.73	.00	385	0	-38.0	.4	10.17	.10	1.39	.28	11.02	.01	300	2.75
1226	✓		6.73	.00	386	1	-39.1	1.1	9.92	.25	1.34	.05	11.03	.01	300	2.90
1231	✓		6.73	.00	386	1	-40.6	1.5	9.87	.05	1.40	.06	10.98	.05	300	3.01

Comments:

Analyses Samples Collected for: SAMPLES @ 1235

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of

EW-403 11/4/21
-OGO 2/15/22

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: <u>BASF Lewiston</u> DATE: <u>11-4</u>	FIELD PERSONNEL: <u>BRIAN J. DUNN</u> WEATHER: <u>45° CLOUDY</u>
MONITORING WELL #: <u>MW-33</u> WELL DEPTH: <u>12.85</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>1 1/2</u> inches	SCREENED INTERVAL: <u>3-13</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.v): <u> </u> HEADSPACE: <u>N/A</u>	BACKGROUND: <u>N/A</u> PUMP INTAKE DEPTH: <u>8</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>2.43</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1300	/		6.23	NA	76	NA	57.3	NA	9.19	NA	113	NA	11.22	NA	300	2.43
1305	✓		6.03	.20	68	8	72.5	15.2	4.10	5.09	44.4	68.6	11.65	.43	300	3.26
1310	/		5.97	.06	66	2	86.6	14.1	3.01	1.08	34.3	10.1	11.75	.10	300	4.23
1315	✓		5.91	.06	64	2	104.5	17.9	2.36	.65	17.0	17.3	11.68	.07	300	4.41
1320	✓		5.91	.00	66	2	108.0	3.5	1.76	.60	13.2	3.8	11.73	.05	300	4.25
1325	✓		5.91	.00	66	0	109.6	1.6	1.67	.09	9.96	2.6	11.72	.01	300	4.18
1330	✓		5.92	.02	67	1	112.4	2.8	1.54	.13	9.40	5.6	11.64	.06	300	4.15
1335			5.93	.01	69	2	116.2	3.8	1.56	.02	8.03	.37	11.75	.09	300	4.10

Comments:

Analyses Samples Collected for: SAMPLED @ 1337

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>Brian J. Dunbar</u>
DATE: <u>11/4/21</u>	WEATHER: <u>46° CLOUDY</u>
MONITORING WELL #: <u>EW-404</u>	WELL DEPTH: <u> </u> feet
MONITORING WELL PERMIT #: <u> </u>	WELL DIAMETER: <u> </u> inches
SCREENED INTERVAL: <u> </u>	
MONITORING WELL IS FLUSH TO GRADE	

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u> </u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION : <u> </u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
<u>1340</u>			<u>—</u>	<u>NA</u>	<u>—</u>	<u>NA</u>	<u>—</u>	<u>NA</u>	<u>—</u>	<u>NA</u>	<u>—</u>	<u>NA</u>	<u>—</u>	<u>NA</u>	<u>—</u>	<u>—</u>

Comments:
Analyses Samples Collected for: * VAULT WAS FLOODED, SOMEONE LEFT THE COVER OFF *

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston
 DATE: 11/4/21
 MONITORING WELL #: RX-7 WELL DEPTH: 22.10 feet
 MONITORING WELL PERMIT #: WELL DIAMETER: 2" inches
 FIELD PERSONNEL: BRIAN V. DUNN
 WEATHER: 48° Cloudy
 SCREENED INTERVAL: 6-22
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.v): BACKGROUND: N/A PUMP INTAKE DEPTH: 15 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 4.94 feet below top of casing

TIME	Purina Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1456	/	6.30	NA	135	NA	105.4	NA	12.05	NA	37.5	NA	11.50	NA	300	4.94
1501	/	6.18	.12	133	2	114.3	8.9	8.29	3.76	13.2	24.3	11.16 11.16	.34	300	5.54
1506	/	6.17	.01	125	8	113.2	1.1	5.44	2.85	10.4	2.8	11.32	.16	300	5.68
1511	/	6.20	-.03	124	1	113.4	0.2	4.13	1.31	7.46	2.94	11.37	.05	300	5.82
1516	/	6.19	.01	124	1	115.7	2.3	3.61	.52	6.03	1.43	11.35	.02	300	5.88
1521		6.19	.00	119	5	119.2	3.5	3.54	.07	7.90	1.89	11.44	.09	300	6.03
1526		6.20	.01	121.0	2	120.8	1.6	3.42	.12	9.22	1.32	11.45	.01	300	6.08

Comments:
Analyses Samples Collected for: SAMPLED @ 1530

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

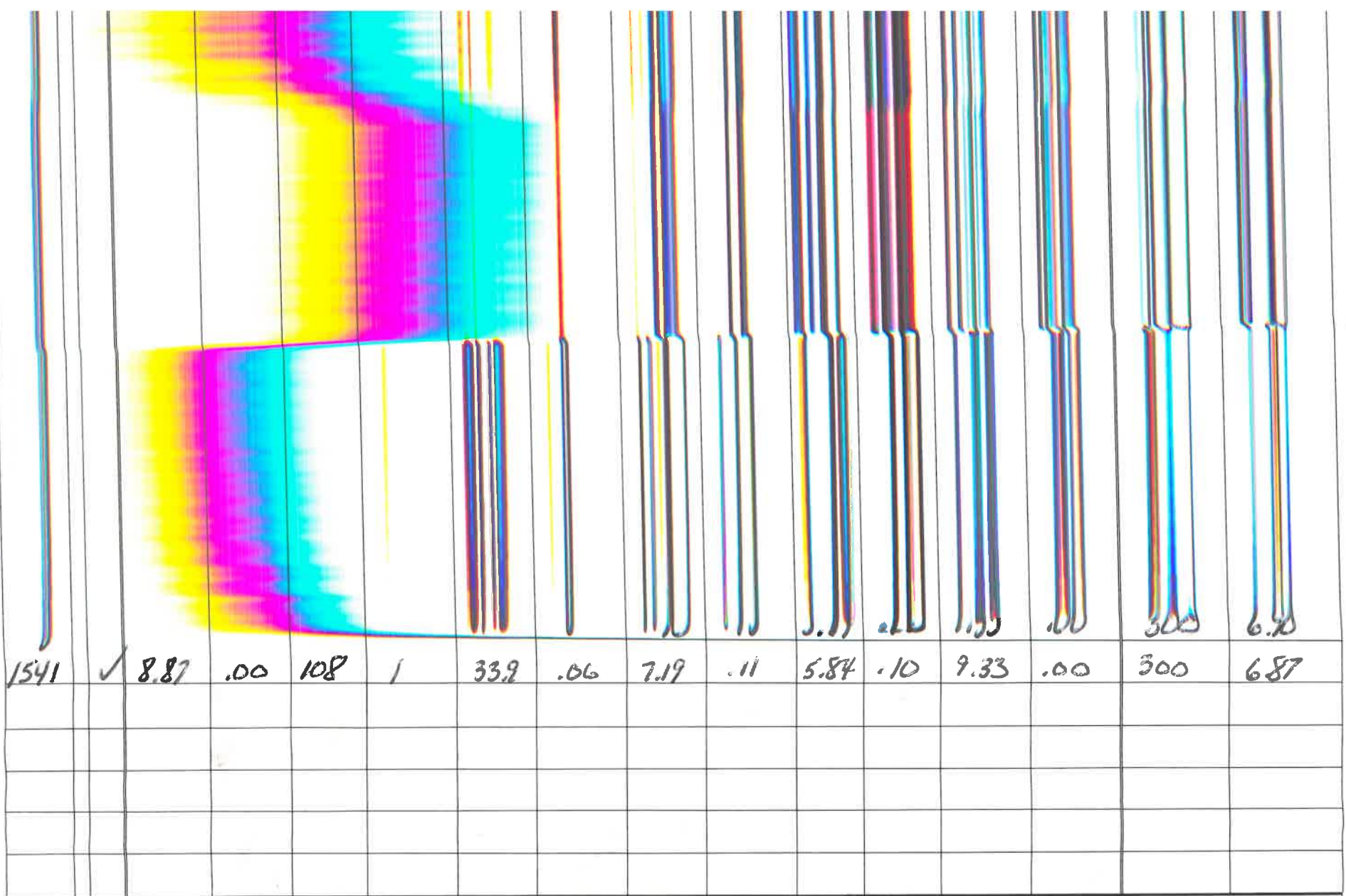
SITE: BASF Lewiston	FIELD PERSONNEL: <u>Brian J. Down</u>
DATE: <u>11/4/24</u>	WEATHER: <u>41° Cloudy</u>
MONITORING WELL #: <u>MW-101</u>	WELL DEPTH: <u>15.45</u> feet
MONITORING WELL PERMIT #:	SCREENED INTERVAL: <u>3-13</u>
WELL DIAMETER: <u>2"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.):	BACKGROUND: N/A	PUMP INTAKE DEPTH: <u>11</u> feet below top of casing
	HEADSPACE: N/A	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.92</u> feet below top of casing

TIME	Purina Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1548	1	5.86	NA	202	NA	122.8	NA	16.74	NA	5.95	NA	12.42	NA	300	4.92
1553	1	5.72	.06	205	3	144.2	21.4	15.62	1.12	2.67	1.28	12.17	.25	300	5.81
1558	1	5.71	.01	205	0	150.3	6.1	15.39	.23	1.55	1.12	12.19	.02	300	5.82
1603	1	5.72	.01	204	1	144.1	6.2	15.30	.09	1.89	.34	12.10	0P	300	5.83
1608	1	5.71	.00	204	0	140.4	3.7	15.16	.14	1.51	.38	12.10	0	300	5.82
1613		5.71	.00	203	1	137.3	3.1	15.05	.11	1.68	.17	11.94	.12	300	5.82

Comments:
Analyses Samples Collected for: Sampled @ 1605

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.



Comments:

Analyses Samples Collected for: *SAMPLES @ 154.5*

EW-601D 11/2/21
-OGO 2/15/21

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; $\pm 3\%$ for specific conductivity and temperature; ± 10 mV for redox potential; and $\pm 10\%$ for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston	FIELD PERSONNEL: <u>BRIAN J. DUNK</u>
DATE: <u>11/3/21</u>	WEATHER: <u>50 CLOUDY</u>
MONITORING WELL #: <u>D2-18</u>	WELL DEPTH: <u>59.30</u> feet
MONITORING WELL PERMIT #: <u> </u>	SCREENED INTERVAL: <u>47-57</u>
WELL DIAMETER: <u>1"</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing
	HEADSPACE: <u>N/A</u>	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>6.10</u> feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1335	/		9.16	NA	95	NA	-64.7	NA	2.68	NA	11.7	NA	9.55	NA	300	6.10
1340	✓		9.21	.05	86	9	-91.9	27.2	0.87	1.81	20.9	9.2	9.23	32	300	21.40
1345	/		9.46	.25	80	6	-105.2	12.9	0.44	1.43	18.5	2.4	9.18	.05	300	26.30
1350	/		9.54	.08	78	2	-121.2	16	0.41	.3	17.1	1.4	9.14	.04	300	30.35
1355			9.49	.05	76	2	-122.2	1	0.45	.4	14.9	2.2	9.23	.09	300	

Comments:
Analyses Samples Collected for: SAMPLED @ 1358

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of 1

SITE: BASF Lewiston DATE: <u>11/5/21</u>	FIELD PERSONNEL: <u>BRIAN J. DUMM</u> WEATHER: <u>90° CLEAR</u>
MONITORING WELL #: <u>RX-12</u> WELL DEPTH: <u>19.90</u> feet MONITORING WELL PERMIT #: _____ WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>7.5-21</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm.): _____	BACKGROUND: N/A HEADSPACE: N/A	PUMP INTAKE DEPTH: <u>15</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>2.16</u> feet below top of casing
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TIME	Purging Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0925	✓	6.04	NA	348	NA	223.6	NA	12.18	NA	80.2	NA	9.66	NA	300	2.16
0930	✓	5.98	.06	369	21	215.6	8.0	1.90	10.28	24.3	55.8	10.52	.86	300	3.43
0935	✓	5.98	.00	370	1	209.3	6.3	1.47	.43	21.3	3.0	10.28	24	300	4.02
0940	✓	5.97	.01	369	1	205.8	3.5	1.43	.04	11.8	9.5	10.23	.05	300	4.18
0945	✓	5.97	.00	368	1	201.2	4.6	1.48	.06	10.2	1.6	10.34	.11	300	4.21
0950	✓	5.98	.02	364	4	199.5	1.7	1.53	.04	8.55	1.65	10.29	.05	300	4.15
0955		5.97	.01	361	3	198.0	1.5	1.63	.10	5.87	2.68	10.36	.01	300	4.12

Comments:
Analyses Samples Collected for: SAMPLED @ 0958 DUP RX-12

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-4-21</u>	FIELD PERSONNEL: <u>Anna Under</u> WEATHER: <u>Clear 400</u>
MONITORING WELL #: <u>RX-13</u> WELL DEPTH: <u>19.75</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	SCREENED INTERVAL: <u>6-19.5</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>12</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.32</u> feet below top of casing
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TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1500	X		6.51	NA	183	NA	80.1	NA	1.14	NA	10.4	NA	12.60	NA	300	5.57
1505	X		6.29	22	182	1	85.2	5.1	1.30	2.84	8.3	2.1	12.21	.39	300	6.49
1510	X		6.22	7	181	1	86.8	1.6	.92	.38	4.5	3.8	11.95	.26	300	6.83
1515	X		6.20	2	182	1	85.1	1.7	.80	.12	3.1	1.4	11.91	.64	300	7.07
1520	X		6.20	0	182	0	85.6	.5	.80	0	2.8	.3	11.90	.01	300	7.26
1525	X		6.19	1	182	1	85.7	.1	.83	.03	2.9	.1	11.89	.01	300	7.42

Comments: Analyses Samples Collected for: full list voc's / PFAS sample @ 1535

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-4-21</u>	FIELD PERSONNEL: <u>Liam Madra</u> WEATHER: <u>clear 35°</u>
MONITORING WELL #: <u>RX-28</u> WELL DEPTH: <u>48.9</u> feet	SCREENED INTERVAL: <u>41-46</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.58</u> feet below top of casing
---------------------------------------	---	--

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1105	X		9.24	NA	104	NA	15.9	NA	7.73	NA	23.6	NA	10.05	NA	300	4.60
1110	X		9.37	.13	97	7	26.9	11	7.46	.27	6.1	17.5	10.17	.12	300	4.64
1115	X		9.40	.03	93	4	34.6	7.7	7.27	.19	6.3	.2	10.43	.26	300	4.65
1120	X		9.42	.02	91	2	39.6	5.0	6.50	.77	3.4	2.9	10.46	.03	300	4.67
1125	X		9.44	.02	91	0	44.5	4.9	6.47	.03	3.0	.4	10.47	.01	300	4.69
1130	X		9.45	.01	91	0	47.9	3.4	6.49	.02	3.1	.1	10.50	.03	300	4.72

Comments: Full 1st vol's / PFAS sample @ 1140

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston
 DATE: 11-3-21
 MONITORING WELL #: MWA01 B WELL DEPTH: 13.00 feet
 MONITORING WELL PERMIT #: WELL DIAMETER: 2 inches
 FIELD PERSONNEL: L. Mader
 WEATHER: Overcast 40°
 SCREENED INTERVAL: 5-10
 MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm_v): BACKGROUND: N/A PUMP INTAKE DEPTH: 8 feet below top of casing
 HEADSPACE: N/A DEPTH TO WATER BEFORE PUMP INSTALLATION: 3.34 feet below top of casing

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1446	x		7.97	NA	402	NA	-12.5	NA	.80	NA	6.9	NA	10.74	NA	300	3.54
1445	x		7.97	0	402	0	-9.6	2.9	.81	.01	5.1	1.8	10.70	.04	300	3.61
1450	x		7.97	0	402	0	-9.1	.5	.80	.01	4.7	.4	10.66	.03	300	3.62
1455	x		7.97	0	402	0	-8.2	.9	.79	.01	4.6	.1	10.66	.03	300	3.65

Comments: Full list vials + PFAS sample @ 1505

Analyses Samples Collected for:

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: BASF Lewiston DATE: <u>11-5-21</u>	FIELD PERSONNEL: <u>L. WATKINS</u> WEATHER: <u>CLEAR -40°</u>
MONITORING WELL #: <u>MW 35D</u> WELL DEPTH: <u>61.80</u> feet	SCREENED INTERVAL: <u>49.59</u>
MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2</u> inches	MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v):	BACKGROUND: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing	DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>4.76</u> feet below top of casing
HEADSPACE: <u>N/A</u>			

TIME	Purging	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1225	X		7.10	NA	408	NA	-186.2	NA	2.38	NA	26.2	NA	12.03	NA	300	4.79
1230	X		7.23	.13	409	1	-217	30.8	.95	1.43	19.3	6.9	12.10	.07	300	4.80
1235	X		7.30	.07	389	20	-255.6	38.6	.40	.55	19.5	.2	11.68	.42	300	4.83
1240	X		7.31	.01	386	3	-260.1	4.5	.39	.01	19.8	.3	11.63	.05	300	4.85
1245	X		7.32	.01	383	3	-262.8	2.7	.41	.02	20	.2	11.61	.02	300	4.86

Comments: Full list VOC's / PFAS sample @ 1255

Analyses Samples Collected for: Full list VOC's / PFAS sample @ 1255

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

Sheet 1 of

SITE: BASF Lewiston DATE: <u>11-2-21</u>	FIELD PERSONNEL: <u>L. MAHER</u> WEATHER: <u>clear 50°</u>
MONITORING WELL #: <u>P2-16</u> WELL DEPTH: <u>23.9</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>1</u> inches	SCREENED INTERVAL: <u>12.5 - 20.5</u> MONITORING WELL IS FLUSH TO GRADE

PID/FID READINGS (ppm _v): <u> </u>	BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>15</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.88</u> feet below top of casing
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TIME	Pumping	Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1240	X		8.21	NA	253	NA	-168	NA	1.58	NA	3.2	NA	11.43	NA	300	5.98
1245	X		8.18	.03	255	2	-153.3	14.7	1.30	.28	2.0	1.2	11.54	.12	300	6.00
1250	X		8.19	.01	261	6	-156.5	2.7	.93	.37	1.8	.2	11.44	.11	300	6.01
1255	X		8.19	0	262	1	-158.5	2	.91	.02	1.7	.1	11.42	.02	300	6.01
1300	X		8.20	.01	262	0	-160.5	2	.90	.01	1.9	.2	11.39	.03	300	6.00

Comments: full list VOC's via 8260 sample @ -1310

Analyses Samples Collected for: full list VOC's via 8260 sample @ -1310

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.

LOW FLOW SAMPLING DATA SHEET

SITE: <u>BASF Lewiston</u> DATE: <u>11/2/21</u>	FIELD PERSONNEL: <u>BRAND J. DOWD</u> WEATHER: <u> </u>
MONITORING WELL #: <u>EW-6010</u> WELL DEPTH: <u>47</u> feet MONITORING WELL PERMIT #: <u> </u> WELL DIAMETER: <u>2"</u> inches	SCREENED INTERVAL: <u>34-44</u> MONITORING WELL IS FLUSH TO GRADE
PID/FID READINGS (ppm _v): <u> </u> BACKGROUND: <u>N/A</u> HEADSPACE: <u>N/A</u>	PUMP INTAKE DEPTH: <u>30</u> feet below top of casing DEPTH TO WATER BEFORE PUMP INSTALLATION: <u>5.39</u> feet below top of casing

TIME	Pumping Sampling	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mV)		DISSOLVED OXYGEN (mg/L)		TURBIDITY (NTU)		TEMPERATURE (°C)		PUMPING RATE (mL/min)	DEPTH TO WATER (feet below top of casing)
		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
1513	✓	9.28	NA	95	NA	26.8	NA	5.84	NA	11.0	NA	9.60	NA	300	5.39
1518	✓	9.04	24	102	7	30.3	3.5	6.76	.92	7.40	3.60	9.48	.12	300	6.89
1523	✓	8.90	.14	103	1	33.9	3.6	7.28	.52	4.12	3.28	9.40	.08	300	6.92
1528	✓	8.87	.03	104	1	36.0	2.1	7.26	.02	4.82	74	9.37	.03	300	6.91
1533	✓	8.87	.00	107	3	35.3	.07	7.45	.19	5.04	.18	9.33	.04	300	6.90
1538	✓	8.87	.00	107	0	34.5	.08	7.30	.15	5.74	.20	9.33	.00	300	6.90
1541	✓	8.87	.00	108	1	33.9	.06	7.19	.11	5.84	.10	9.33	.00	300	6.87

Comments:
Analyses Samples Collected for: SAMPLES @ 1545

Parameters have stabilized when three consecutive readings are within ± 0.1 for pH; ± 3% for specific conductivity and temperature; ± 10 mV for redox potential; and ± 10% for dissolved oxygen and turbidity. Pumping rate to be maintained at rate less than 300 ml/min that allows drawdown of <0.3 feet.



Appendix B – Groundwater and Surface Water Laboratory Analytical Reports (May, July, and November 2021)

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/52/873 ORG 1116

SGS Job Number: JD24770

Sampling Dates: 05/03/21 - 05/06/21



Report to:

Groundwater & Environmental Services
One Park Drive, Suite 8
Westford, MA 01886
BHoran@GesOnline.com; kkitchin@gesonline.com;
neregion@gesonline.com
ATTN: Kevin Kitchin

Total number of pages in report: 263



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: JD24770

BASF, 55 Crowley Road, Lewiston, ME
 Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD24770-1	05/03/21	13:15	PSC	05/07/21	AQ	Ground Water	PZ-23
JD24770-2	05/03/21	14:10	PSC	05/07/21	AQ	Ground Water	PZ-21
JD24770-3	05/03/21	13:30	DC	05/07/21	AQ	Ground Water	RX-12
JD24770-4	05/03/21	14:40	DC	05/07/21	AQ	Ground Water	MW-204
JD24770-5	05/03/21	14:25	PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 1
JD24770-6	05/03/21	14:30	PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 2
JD24770-7	05/03/21	14:35	PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 3
JD24770-8	05/04/21	08:40	PSC	05/07/21	AQ	Ground Water	TWP-23
JD24770-9	05/04/21	09:25	PSC	05/07/21	AQ	Ground Water	TWP-25
JD24770-10	05/04/21	10:10	PSC	05/07/21	AQ	Ground Water	PZ-16
JD24770-11	05/04/21	10:50	PSC	05/07/21	AQ	Ground Water	TWP-26
JD24770-12	05/04/21	12:00	PSC	05/07/21	AQ	Ground Water	EW-601D



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-13	05/04/21	12:50 PSC	05/07/21	AQ	Ground Water	EW-501
JD24770-14	05/04/21	13:55 PSC	05/07/21	AQ	Ground Water	MW-401B
JD24770-15	05/04/21	14:45 PSC	05/07/21	AQ	Ground Water	RX-03
JD24770-16	05/04/21	15:30 PSC	05/07/21	AQ	Ground Water	PZ-20
JD24770-17	05/04/21	16:20 PSC	05/07/21	AQ	Ground Water	MW-206B
JD24770-18	05/04/21	08:45 DC	05/07/21	AQ	Ground Water	MW-35D
JD24770-19	05/04/21	09:40 DC	05/07/21	AQ	Ground Water	MW-35
JD24770-20	05/04/21	10:40 DC	05/07/21	AQ	Ground Water	MW-36D
JD24770-21	05/04/21	11:30 DC	05/07/21	AQ	Ground Water	PZ-18
JD24770-22	05/04/21	12:20 DC	05/07/21	AQ	Ground Water	PZ-17
JD24770-23	05/04/21	13:10 DC	05/07/21	AQ	Ground Water	MW-34
JD24770-24	05/04/21	14:00 DC	05/07/21	AQ	Ground Water	MW-34D
JD24770-25	05/04/21	15:00 DC	05/07/21	AQ	Ground Water	PZ-9



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-26	05/04/21	15:55 DC	05/07/21	AQ	Ground Water	PZ-10
JD24770-27	05/04/21	16:40 DC	05/07/21	AQ	Ground Water	MW-208
JD24770-28	05/05/21	08:10 PSC	05/07/21	AQ	Ground Water	MW-111
JD24770-29	05/05/21	08:55 PSC	05/07/21	AQ	Ground Water	MW-106
JD24770-30	05/05/21	09:50 PSC	05/07/21	AQ	Ground Water	RX-20
JD24770-31	05/05/21	10:45 PSC	05/07/21	AQ	Ground Water	MW-33
JD24770-32	05/05/21	08:15 DC	05/07/21	AQ	Ground Water	RX-28
JD24770-33	05/05/21	09:15 DC	05/07/21	AQ	Ground Water	MW-109
JD24770-34	05/05/21	10:10 DC	05/07/21	AQ	Ground Water	EW-404
JD24770-35	05/05/21	11:10 DC	05/07/21	AQ	Ground Water	RX-19
JD24770-36	05/06/21	10:35 PSC	05/07/21	AQ	Trip Blank Water	TRIP BLANK 01
JD24770-37	05/06/21	07:55 DC	05/07/21	AQ	Ground Water	MW-408A
JD24770-38	05/06/21	10:35 PSC	05/07/21	AQ	Ground Water	EW-403



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-39	05/06/21	09:30 PSC	05/07/21	AQ	Ground Water	MW-101
JD24770-40	05/06/21	08:50 DC	05/07/21	AQ	Ground Water	RX-01
JD24770-41	05/06/21	09:50 DC	05/07/21	AQ	Ground Water	RX-05
JD24770-42	05/06/21	07:50 PSC	05/07/21	AQ	Ground Water	RX-07
JD24770-43	05/06/21	08:40 PSC	05/07/21	AQ	Ground Water	RX-13
JD24770-44	05/06/21	08:55 DC	05/07/21	AQ	Ground Water	DUP 01
JD24770-45	05/06/21	09:55 DC	05/07/21	AQ	Ground Water	DUP 02
JD24770-46	05/06/21	09:35 PSC	05/07/21	AQ	Ground Water	DUP 03

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JD24770-1 PZ-23

No hits reported in this sample.

JD24770-2 PZ-21

Benzene	9.3	0.50		ug/l	SW846 8260D
Chloroethane	391	10		ug/l	SW846 8260D
1,1-Dichloroethane	73.4	1.0		ug/l	SW846 8260D
1,2-Dichloroethane	1.1	1.0		ug/l	SW846 8260D
1,1-Dichloroethene	4.7	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	100	1.0		ug/l	SW846 8260D
Ethylbenzene	1.7	1.0		ug/l	SW846 8260D
Methylene chloride	3.1	2.0		ug/l	SW846 8260D
Toluene	5.1	1.0		ug/l	SW846 8260D
Vinyl chloride	107	1.0		ug/l	SW846 8260D
m,p-Xylene	3.7	1.0		ug/l	SW846 8260D
o-Xylene	2.2	1.0		ug/l	SW846 8260D
Xylene (total)	5.9	1.0		ug/l	SW846 8260D

JD24770-3 RX-12

Tetrachloroethene	1.1	1.0		ug/l	SW846 8260D
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JD24770-4 MW-204

Benzene	9.1	0.50		ug/l	SW846 8260D
Chloroethane	656	10		ug/l	SW846 8260D
1,1-Dichloroethane	57.0	1.0		ug/l	SW846 8260D
1,1-Dichloroethene	1.5	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	97.6	1.0		ug/l	SW846 8260D
Methylene chloride	3.8	2.0		ug/l	SW846 8260D
Trichloroethene	8.3	1.0		ug/l	SW846 8260D
Vinyl chloride	15.5	1.0		ug/l	SW846 8260D

JD24770-5 EQUIPMENT BLANK 1

No hits reported in this sample.

JD24770-6 EQUIPMENT BLANK 2

No hits reported in this sample.

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-7 EQUIPMENT BLANK 3

No hits reported in this sample.

JD24770-8 TWP-23

No hits reported in this sample.

JD24770-9 TWP-25

cis-1,2-Dichloroethene	1.0	1.0	ug/l	SW846 8260D
Tetrachloroethene	32.2	1.0	ug/l	SW846 8260D
Trichloroethene	90.1	1.0	ug/l	SW846 8260D

JD24770-10 PZ-16

cis-1,2-Dichloroethene	1.2	1.0	ug/l	SW846 8260D
Tetrachloroethene	97.4	1.0	ug/l	SW846 8260D
Trichloroethene	139	1.0	ug/l	SW846 8260D

JD24770-11 TWP-26

cis-1,2-Dichloroethene	1.9	1.0	ug/l	SW846 8260D
Tetrachloroethene	73.5	1.0	ug/l	SW846 8260D
Trichloroethene	150	1.0	ug/l	SW846 8260D

JD24770-12 EW-601D

No hits reported in this sample.

JD24770-13 EW-501

cis-1,2-Dichloroethene	2.9	1.0	ug/l	SW846 8260D
Tetrachloroethene	7.0	1.0	ug/l	SW846 8260D
1,1,1-Trichloroethane	11.4	1.0	ug/l	SW846 8260D
Trichloroethene	3.0	1.0	ug/l	SW846 8260D

JD24770-14 MW-401B

1,1-Dichloroethene ^a	57.1	25	ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a	1280	25	ug/l	SW846 8260D
Tetrachloroethene	11100	100	ug/l	SW846 8260D
1,1,1-Trichloroethane ^a	64.1	25	ug/l	SW846 8260D
Trichloroethene ^a	893	25	ug/l	SW846 8260D

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-15 RX-03

Chloroethane ^a	119	50			ug/l	SW846 8260D
1,1-Dichloroethane ^a	4880	50			ug/l	SW846 8260D
1,1-Dichloroethene ^a	1260	50			ug/l	SW846 8260D
1,1,1-Trichloroethane	17800	500			ug/l	SW846 8260D

JD24770-16 PZ-20

1,1-Dichloroethene ^a	660	250			ug/l	SW846 8260D
cis-1,2-Dichloroethene	75100	2500			ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	363	250			ug/l	SW846 8260D
Tetrachloroethene ^a	603	250			ug/l	SW846 8260D
Trichloroethene ^a	21800	250			ug/l	SW846 8260D
Vinyl chloride ^a	794	250			ug/l	SW846 8260D

JD24770-17 MW-206B

1,1-Dichloroethene	1.9	1.0			ug/l	SW846 8260D
cis-1,2-Dichloroethene	60.2	1.0			ug/l	SW846 8260D
trans-1,2-Dichloroethene	7.5	1.0			ug/l	SW846 8260D
Methyl Tert Butyl Ether	2.7	1.0			ug/l	SW846 8260D
Tetrachloroethene	44.9	1.0			ug/l	SW846 8260D
Trichloroethene	51.2	1.0			ug/l	SW846 8260D
Vinyl chloride	1.6	1.0			ug/l	SW846 8260D

JD24770-18 MW-35D

Carbon disulfide	8.5	2.0			ug/l	SW846 8260D
cis-1,2-Dichloroethene	12.7	1.0			ug/l	SW846 8260D
Tetrachloroethene	11.3	1.0			ug/l	SW846 8260D
Toluene	1.0	1.0			ug/l	SW846 8260D
Trichloroethene	5.6	1.0			ug/l	SW846 8260D

JD24770-19 MW-35

No hits reported in this sample.

JD24770-20 MW-36D

No hits reported in this sample.

JD24770-21 PZ-18

No hits reported in this sample.

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-22 PZ-17

No hits reported in this sample.

JD24770-23 MW-34

No hits reported in this sample.

JD24770-24 MW-34D

cis-1,2-Dichloroethene	9.0	1.0		ug/l	SW846 8260D
Tetrachloroethene	45.0	1.0		ug/l	SW846 8260D
Trichloroethene	36.8	1.0		ug/l	SW846 8260D

JD24770-25 PZ-9

cis-1,2-Dichloroethene	2.0	1.0		ug/l	SW846 8260D
Trichloroethene	9.5	1.0		ug/l	SW846 8260D

JD24770-26 PZ-10

Tetrachloroethene	59.0	1.0		ug/l	SW846 8260D
Trichloroethene	40.0	1.0		ug/l	SW846 8260D

JD24770-27 MW-208

No hits reported in this sample.

JD24770-28 MW-111

1,1-Dichloroethene ^a	101	50		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a	391	50		ug/l	SW846 8260D
Tetrachloroethene ^a	7400	50		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a	1940	50		ug/l	SW846 8260D
Trichloroethene ^a	2590	50		ug/l	SW846 8260D

JD24770-29 MW-106

Acetone ^a	35800	500		ug/l	SW846 8260D
Benzene ^a	314	25		ug/l	SW846 8260D
2-Butanone (MEK) ^a	10200	500		ug/l	SW846 8260D
1,1-Dichloroethane ^a	280	50		ug/l	SW846 8260D
1,1-Dichloroethene ^a	2610	50		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a	6260	50		ug/l	SW846 8260D

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
trans-1,2-Dichloroethene ^a		52.1	50		ug/l	SW846 8260D
Ethylbenzene ^a		852	50		ug/l	SW846 8260D
4-Methyl-2-pentanone(MIBK) ^a		976	250		ug/l	SW846 8260D
Methylene chloride ^a		536	100		ug/l	SW846 8260D
Tetrachloroethene ^a		1190	50		ug/l	SW846 8260D
Toluene ^a		1550	50		ug/l	SW846 8260D
1,1,1-Trichloroethane		40300	500		ug/l	SW846 8260D
Trichloroethene ^a		1390	50		ug/l	SW846 8260D
1,2,4-Trimethylbenzene ^a		156	100		ug/l	SW846 8260D
m,p-Xylene ^a		2080	50		ug/l	SW846 8260D
o-Xylene ^a		923	50		ug/l	SW846 8260D
Xylene (total) ^a		3000	50		ug/l	SW846 8260D
JD24770-30 RX-20						
1,1-Dichloroethane		2.0	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene		126	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene		1.9	1.0		ug/l	SW846 8260D
Tetrachloroethene		337	10		ug/l	SW846 8260D
1,1,1-Trichloroethane		21.8	1.0		ug/l	SW846 8260D
Trichloroethene		81.0	1.0		ug/l	SW846 8260D
JD24770-31 MW-33						
cis-1,2-Dichloroethene		8.0	1.0		ug/l	SW846 8260D
Tetrachloroethene		222	10		ug/l	SW846 8260D
1,1,1-Trichloroethane		1.1	1.0		ug/l	SW846 8260D
Trichloroethene		37.5	1.0		ug/l	SW846 8260D
JD24770-32 RX-28						
1,1-Dichloroethene		1.3	1.0		ug/l	SW846 8260D
Tetrachloroethene		292	5.0		ug/l	SW846 8260D
Trichloroethene		114	1.0		ug/l	SW846 8260D
JD24770-33 MW-109						
cis-1,2-Dichloroethene		101	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene		4.5	1.0		ug/l	SW846 8260D
Tetrachloroethene		58.0	1.0		ug/l	SW846 8260D
Trichloroethene		35.8	1.0		ug/l	SW846 8260D
JD24770-34 EW-404						
1,1-Dichloroethane		8.2	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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cis-1,2-Dichloroethene		72.8	1.0		ug/l	SW846 8260D
Tetrachloroethene		254	5.0		ug/l	SW846 8260D
1,1,1-Trichloroethane		95.5	1.0		ug/l	SW846 8260D
Trichloroethene		45.4	1.0		ug/l	SW846 8260D

JD24770-35 RX-19

1,1-Dichloroethene		1.3	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene		50.3	1.0		ug/l	SW846 8260D
Tetrachloroethene		186	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane		13.1	1.0		ug/l	SW846 8260D
Trichloroethene		56.1	1.0		ug/l	SW846 8260D

JD24770-36 TRIP BLANK 01

No hits reported in this sample.

JD24770-37 MW-408A

cis-1,2-Dichloroethene		3.8	1.0		ug/l	SW846 8260D
Tetrachloroethene		6.6	1.0		ug/l	SW846 8260D
Trichloroethene		67.1	1.0		ug/l	SW846 8260D

JD24770-38 EW-403

Acetone ^a		1380	250		ug/l	SW846 8260D
Benzene ^a		302	13		ug/l	SW846 8260D
2-Butanone (MEK) ^a		1750	250		ug/l	SW846 8260D
Chloroethane ^a		1060	25		ug/l	SW846 8260D
1,1-Dichloroethane ^a		4690	25		ug/l	SW846 8260D
1,1-Dichloroethene ^a		1280	25		ug/l	SW846 8260D
cis-1,2-Dichloroethene		5550	100		ug/l	SW846 8260D
Ethylbenzene ^a		924	25		ug/l	SW846 8260D
4-Methyl-2-pentanone(MIBK) ^a		362	130		ug/l	SW846 8260D
Methylene chloride ^a		225	50		ug/l	SW846 8260D
Toluene ^a		900	25		ug/l	SW846 8260D
1,1,1-Trichloroethane		5030	100		ug/l	SW846 8260D
1,2,4-Trimethylbenzene ^a		159	50		ug/l	SW846 8260D
1,3,5-Trimethylbenzene ^a		60.1	50		ug/l	SW846 8260D
Vinyl chloride ^a		485	25		ug/l	SW846 8260D
m,p-Xylene ^a		2420	25		ug/l	SW846 8260D
o-Xylene ^a		1210	25		ug/l	SW846 8260D
Xylene (total) ^a		3630	25		ug/l	SW846 8260D

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

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Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD24770-39						
	MW-101					
cis-1,2-Dichloroethene ^a		1980	200		ug/l	SW846 8260D
Tetrachloroethene		66400	1000		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		3570	200		ug/l	SW846 8260D
Trichloroethene ^a		646	200		ug/l	SW846 8260D
JD24770-40						
	RX-01					
Chloroform ^a		56.8	20		ug/l	SW846 8260D
1,1-Dichloroethene ^a		40.9	20		ug/l	SW846 8260D
cis-1,2-Dichloroethene		4840	200		ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		63.7	20		ug/l	SW846 8260D
Tetrachloroethene		14900	200		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		199	20		ug/l	SW846 8260D
Trichloroethene		5850	200		ug/l	SW846 8260D
JD24770-41						
	RX-05					
Chloroform ^a		1900	250		ug/l	SW846 8260D
1,1-Dichloroethene ^a		496	250		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a		4430	250		ug/l	SW846 8260D
Methylene chloride ^a		926	500		ug/l	SW846 8260D
Tetrachloroethene		88000	2500		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		5670	250		ug/l	SW846 8260D
Trichloroethene ^a		12900	250		ug/l	SW846 8260D
Vinyl chloride ^a		476	250		ug/l	SW846 8260D
JD24770-42						
	RX-07					
Tetrachloroethene ^a		12200	100		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		372	100		ug/l	SW846 8260D
JD24770-43						
	RX-13					
Tetrachloroethene ^a		39200	250		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		7910	250		ug/l	SW846 8260D
Trichloroethene ^a		349	250		ug/l	SW846 8260D
m,p-Xylene ^a		633	250		ug/l	SW846 8260D
o-Xylene ^a		282	250		ug/l	SW846 8260D
Xylene (total) ^a		915	250		ug/l	SW846 8260D
JD24770-44						
	DUP 01					
cis-1,2-Dichloroethene ^a		4310	100		ug/l	SW846 8260D

Summary of Hits

Job Number: JD24770
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Tetrachloroethene ^a		13800	100		ug/l	SW846 8260D
Trichloroethene ^a		5610	100		ug/l	SW846 8260D

JD24770-45 DUP 02

Chloroform ^a		1900	250		ug/l	SW846 8260D
1,1-Dichloroethene ^a		555	250		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a		4350	250		ug/l	SW846 8260D
Methylene chloride ^a		933	500		ug/l	SW846 8260D
Tetrachloroethene		101000	2500		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		5530	250		ug/l	SW846 8260D
Trichloroethene ^a		12100	250		ug/l	SW846 8260D
Vinyl chloride ^a		443	250		ug/l	SW846 8260D

JD24770-46 DUP 03

cis-1,2-Dichloroethene ^a		1760	250		ug/l	SW846 8260D
Tetrachloroethene		68200	1000		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		3410	250		ug/l	SW846 8260D
Trichloroethene ^a		598	250		ug/l	SW846 8260D

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: PZ-23		Date Sampled: 05/03/21
Lab Sample ID: JD24770-1		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168577.D	1	05/13/21 20:59	EH	n/a	n/a	V2E8433
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane ^a	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-23	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-1	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^a	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-23		Date Sampled: 05/03/21
Lab Sample ID: JD24770-1		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21		Date Sampled: 05/03/21
Lab Sample ID: JD24770-2		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168598.D	1	05/15/21 13:24	EH	n/a	n/a	V2E8436
Run #2	2E168596.D	10	05/15/21 12:24	EH	n/a	n/a	V2E8436

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	9.3	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	391 ^b	10	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	73.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	1.1	1.0	ug/l	
75-35-4	1,1-Dichloroethene	4.7	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	100	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-21	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-2	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	1.7	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	3.1	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	5.1	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	107	1.0	ug/l	
	m,p-Xylene	3.7	1.0	ug/l	
95-47-6	o-Xylene	2.2	1.0	ug/l	
1330-20-7	Xylene (total)	5.9	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	99%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21		Date Sampled: 05/03/21
Lab Sample ID: JD24770-2		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	95%	80-121%
2037-26-5	Toluene-D8	96%	96%	80-120%
460-00-4	4-Bromofluorobenzene	90%	90%	80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12		Date Sampled: 05/03/21
Lab Sample ID: JD24770-3		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168595.D	1	05/15/21 11:54	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12		Date Sampled: 05/03/21
Lab Sample ID: JD24770-3		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.1	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12		Date Sampled: 05/03/21
Lab Sample ID: JD24770-3		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204		Date Sampled: 05/03/21
Lab Sample ID: JD24770-4		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168599.D	1	05/15/21 13:54	EH	n/a	n/a	V2E8436
Run #2	2E168597.D	10	05/15/21 12:54	EH	n/a	n/a	V2E8436

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	9.1	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	656 ^b	10	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	57.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.5	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	97.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204		Date Sampled: 05/03/21
Lab Sample ID: JD24770-4		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	3.8	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	8.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	15.5	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204		Date Sampled: 05/03/21
Lab Sample ID: JD24770-4		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%	96%	80-121%
2037-26-5	Toluene-D8	97%	96%	80-120%
460-00-4	4-Bromofluorobenzene	89%	91%	80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 1	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-5	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168570.D	1	05/13/21 17:28	EH	n/a	n/a	V2E8433
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane ^a	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 1	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-5	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^a	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK 1	
Lab Sample ID: JD24770-5	Date Sampled: 05/03/21
Matrix: AQ - Equipment Blank	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	89%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 2	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-6	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168593.D	1	05/15/21 10:54	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 2	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-6	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK 2	
Lab Sample ID: JD24770-6	Date Sampled: 05/03/21
Matrix: AQ - Equipment Blank	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 3	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-7	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168594.D	1	05/15/21 11:24	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK 3	Date Sampled:	05/03/21
Lab Sample ID:	JD24770-7	Date Received:	05/07/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK 3	
Lab Sample ID: JD24770-7	Date Sampled: 05/03/21
Matrix: AQ - Equipment Blank	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23		Date Sampled: 05/04/21
Lab Sample ID: JD24770-8		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168603.D	1	05/15/21 16:01	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23		Date Sampled: 05/04/21
Lab Sample ID: JD24770-8		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23		Date Sampled: 05/04/21
Lab Sample ID: JD24770-8		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 05/04/21
Lab Sample ID: JD24770-9		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168604.D	1	05/15/21 16:31	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 05/04/21
Lab Sample ID: JD24770-9		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	32.2	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	90.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 05/04/21
Lab Sample ID: JD24770-9		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 05/04/21
Lab Sample ID: JD24770-10		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168612.D	1	05/15/21 20:27	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 05/04/21
Lab Sample ID: JD24770-10		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	97.4	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	139	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 05/04/21
Lab Sample ID: JD24770-10		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 05/04/21
Lab Sample ID: JD24770-11		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168605.D	1	05/15/21 17:01	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP-26	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-11	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	73.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	150	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 05/04/21
Lab Sample ID: JD24770-11		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-12		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168606.D	1	05/15/21 17:32	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-601D	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-12	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-12		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501	Date Sampled: 05/04/21
Lab Sample ID: JD24770-13	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168607.D	1	05/15/21 18:02	EH	n/a	n/a	V2E8436
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501		Date Sampled: 05/04/21
Lab Sample ID: JD24770-13		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone ^a	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	7.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	11.4	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	3.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501		Date Sampled: 05/04/21
Lab Sample ID: JD24770-13		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-401B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-14		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X190914.D	25	05/18/21 11:58	ED	n/a	n/a	VX8261
Run #2	2E168611.D	100	05/15/21 19:57	EH	n/a	n/a	V2E8436

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	250	ug/l	
71-43-2	Benzene	ND	13	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK) ^c	ND	250	ug/l	
104-51-8	n-Butylbenzene	ND	50	ug/l	
135-98-8	sec-Butylbenzene	ND	50	ug/l	
98-06-6	tert-Butylbenzene	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
74-87-3	Chloromethane	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	50	ug/l	
106-43-4	p-Chlorotoluene	ND	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethene	57.1	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	1280	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-401B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-14		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
87-68-3	Hexachlorobutadiene ^d	ND	50	ug/l	
591-78-6	2-Hexanone	ND	130	ug/l	
74-88-4	Iodomethane	ND	50	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	50	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
127-18-4	Tetrachloroethene	11100 ^e	100	ug/l	
108-88-3	Toluene	ND	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	64.1	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
79-01-6	Trichloroethene	893	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	ug/l	
108-05-4	Vinyl Acetate ^b	ND	250	ug/l	
75-01-4	Vinyl chloride	ND	25	ug/l	
	m,p-Xylene	ND	25	ug/l	
95-47-6	o-Xylene	ND	25	ug/l	
1330-20-7	Xylene (total)	ND	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	99%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-401B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-14		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%	96%	80-121%
2037-26-5	Toluene-D8	99%	96%	80-120%
460-00-4	4-Bromofluorobenzene	91%	90%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (c) Associated CCV outside of control limits high, sample was ND.
- (d) Associated CCV outside of control limits low.
- (e) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-03		
Lab Sample ID: JD24770-15		Date Sampled: 05/04/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2E168633.D	50	05/17/21 16:28	EH	n/a	n/a	V2E8438
Run #2	A264285.D	500	05/18/21 13:59	KC	n/a	n/a	VA10347

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	500	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	500	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	119	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	4880	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	1260	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-03	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-15	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
74-88-4	Iodomethane	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK) ^b	ND	250	ug/l	
74-95-3	Methylene bromide	ND	50	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene ^c	ND	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	17800 ^d	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
79-01-6	Trichloroethene	ND	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
108-05-4	Vinyl Acetate ^b	ND	500	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	105%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-03		Date Sampled: 05/04/21
Lab Sample ID: JD24770-15		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%	93%	80-121%
2037-26-5	Toluene-D8	98%	94%	80-120%
460-00-4	4-Bromofluorobenzene	95%	93%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.
- (d) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20		Date Sampled: 05/04/21
Lab Sample ID: JD24770-16		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X190921.D	250	05/18/21 16:27	ED	n/a	n/a	VX8261
Run #2	X190917.D	2500	05/18/21 13:25	ED	n/a	n/a	VX8261

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	2500	ug/l	
71-43-2	Benzene	ND	130	ug/l	
108-86-1	Bromobenzene	ND	250	ug/l	
74-97-5	Bromochloromethane	ND	250	ug/l	
75-27-4	Bromodichloromethane	ND	250	ug/l	
75-25-2	Bromoform	ND	250	ug/l	
74-83-9	Bromomethane	ND	500	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	2500	ug/l	
104-51-8	n-Butylbenzene	ND	500	ug/l	
135-98-8	sec-Butylbenzene	ND	500	ug/l	
98-06-6	tert-Butylbenzene	ND	500	ug/l	
75-15-0	Carbon disulfide	ND	500	ug/l	
56-23-5	Carbon tetrachloride	ND	250	ug/l	
108-90-7	Chlorobenzene	ND	250	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	ND	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
95-49-8	o-Chlorotoluene	ND	500	ug/l	
106-43-4	p-Chlorotoluene	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	ug/l	
75-35-4	1,1-Dichloroethene	660	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	75100 ^c	2500	ug/l	
156-60-5	trans-1,2-Dichloroethene	363	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20		Date Sampled: 05/04/21
Lab Sample ID: JD24770-16		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	250	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/l	
100-41-4	Ethylbenzene	ND	250	ug/l	
87-68-3	Hexachlorobutadiene ^d	ND	500	ug/l	
591-78-6	2-Hexanone	ND	1300	ug/l	
74-88-4	Iodomethane	ND	500	ug/l	
98-82-8	Isopropylbenzene	ND	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1300	ug/l	
74-95-3	Methylene bromide	ND	250	ug/l	
75-09-2	Methylene chloride	ND	500	ug/l	
91-20-3	Naphthalene	ND	1300	ug/l	
103-65-1	n-Propylbenzene	ND	500	ug/l	
100-42-5	Styrene	ND	250	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/l	
127-18-4	Tetrachloroethene	603	250	ug/l	
108-88-3	Toluene	ND	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/l	
79-01-6	Trichloroethene	21800	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	ug/l	
108-05-4	Vinyl Acetate ^b	ND	2500	ug/l	
75-01-4	Vinyl chloride	794	250	ug/l	
	m,p-Xylene	ND	250	ug/l	
95-47-6	o-Xylene	ND	250	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%	114%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20		Date Sampled: 05/04/21
Lab Sample ID: JD24770-16		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%	104%	80-121%
2037-26-5	Toluene-D8	100%	99%	80-120%
460-00-4	4-Bromofluorobenzene	88%	90%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-206B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-17		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X190918.D	1	05/18/21 13:53	ED	n/a	n/a	VX8261
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.9	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	60.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.5	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-206B	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-17	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene ^c	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.7	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	44.9	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	51.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	1.6	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-206B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-17		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

- (a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (b) Associated CCV outside of control limits high, sample was ND.
- (c) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-18		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168638.D	1	05/17/21 18:59	EH	n/a	n/a	V2E8438
Run #2	A264284.D	1	05/18/21 13:30	KC	n/a	n/a	VA10347

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND ^a	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	8.5	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.7	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35D	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-18	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK) ^b	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	11.3 ^a	1.0	ug/l	
108-88-3	Toluene	1.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-18		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%	91%	80-121%
2037-26-5	Toluene-D8	98%	92%	80-120%
460-00-4	4-Bromofluorobenzene	95%	94%	80-120%

- (a) Result is from Run# 2
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35		Date Sampled: 05/04/21
Lab Sample ID: JD24770-19		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168639.D	1	05/17/21 19:29	EH	n/a	n/a	V2E8438
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-19	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^b	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35		Date Sampled: 05/04/21
Lab Sample ID: JD24770-19		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-20		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168640.D	1	05/17/21 19:59	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36D	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-20	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^b	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-20		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		Date Sampled: 05/04/21
Lab Sample ID: JD24770-21		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168641.D	1	05/17/21 20:29	EH	n/a	n/a	V2E8438
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-18	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-21	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^b	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		Date Sampled: 05/04/21
Lab Sample ID: JD24770-21		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		
Lab Sample ID: JD24770-22		Date Sampled: 05/04/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168642.D	1	05/17/21 20:59	EH	n/a	n/a	V2E8438
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		Date Sampled: 05/04/21
Lab Sample ID: JD24770-22		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^b	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		Date Sampled: 05/04/21
Lab Sample ID: JD24770-22		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34		Date Sampled: 05/04/21
Lab Sample ID: JD24770-23		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168643.D	1	05/17/21 21:29	EH	n/a	n/a	V2E8438
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34		Date Sampled: 05/04/21
Lab Sample ID: JD24770-23		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK ^a)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene ^b	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^a	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34		Date Sampled: 05/04/21
Lab Sample ID: JD24770-23		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits high, sample was ND.

(b) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-24		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329326.D	1	05/16/21 12:21	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34D	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-24	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	45.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	36.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-24		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		80-121%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		
Lab Sample ID: JD24770-25		Date Sampled: 05/04/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329327.D	1	05/16/21 12:48	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-9	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-25	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	9.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		Date Sampled: 05/04/21
Lab Sample ID: JD24770-25		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10		
Lab Sample ID: JD24770-26		Date Sampled: 05/04/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329335.D	1	05/16/21 16:24	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-10	Date Sampled:	05/04/21
Lab Sample ID:	JD24770-26	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	59.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	40.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10		Date Sampled: 05/04/21
Lab Sample ID: JD24770-26		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-208		Date Sampled: 05/04/21
Lab Sample ID: JD24770-27		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329336.D	1	05/16/21 16:51	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-208		Date Sampled: 05/04/21
Lab Sample ID: JD24770-27		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-208		Date Sampled: 05/04/21
Lab Sample ID: JD24770-27		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-111		Date Sampled: 05/05/21
Lab Sample ID: JD24770-28		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329339.D	50	05/16/21 18:11	BK	n/a	n/a	VL9850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	500	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	101	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	391	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-111		Date Sampled: 05/05/21
Lab Sample ID: JD24770-28		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
74-88-4	Iodomethane ^b	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	ug/l	
74-95-3	Methylene bromide	ND	50	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene	7400	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	1940	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
79-01-6	Trichloroethene	2590	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
108-05-4	Vinyl Acetate ^c	ND	500	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-111		Date Sampled: 05/05/21
Lab Sample ID: JD24770-28		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-106		Date Sampled: 05/05/21
Lab Sample ID: JD24770-29		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329445.D	50	05/18/21 18:01	BK	n/a	n/a	VL9854
Run #2	L329435.D	500	05/18/21 13:32	BK	n/a	n/a	VL9854

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	35800	500	ug/l	
71-43-2	Benzene	314	25	ug/l	
108-86-1	Bromobenzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
74-83-9	Bromomethane ^b	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	10200	500	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	280	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	2610	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	6260	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	52.1	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-106	Date Sampled:	05/05/21
Lab Sample ID:	JD24770-29	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	852	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
74-88-4	Iodomethane ^b	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	976	250	ug/l	
74-95-3	Methylene bromide	ND	50	ug/l	
75-09-2	Methylene chloride	536	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene	1190	50	ug/l	
108-88-3	Toluene	1550	50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	40300 ^c	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
79-01-6	Trichloroethene	1390	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	156	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
108-05-4	Vinyl Acetate	ND	500	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
	m,p-Xylene	2080	50	ug/l	
95-47-6	o-Xylene	923	50	ug/l	
1330-20-7	Xylene (total)	3000	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	96%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-106		Date Sampled: 05/05/21
Lab Sample ID: JD24770-29		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	101%	80-121%
2037-26-5	Toluene-D8	101%	105%	80-120%
460-00-4	4-Bromofluorobenzene	94%	99%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-20		Date Sampled: 05/05/21
Lab Sample ID: JD24770-30		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329346.D	1	05/16/21 21:19	BK	n/a	n/a	VL9850
Run #2	L329345.D	10	05/16/21 20:52	BK	n/a	n/a	VL9850

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	126	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.9	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-20		Date Sampled: 05/05/21
Lab Sample ID: JD24770-30		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	337 ^b	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	21.8	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	81.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^c	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	100%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-20		Date Sampled: 05/05/21
Lab Sample ID: JD24770-30		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	107%	80-121%
2037-26-5	Toluene-D8	107%	105%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	80-120%

- (a) Associated CCV outside of control limits low.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-33		Date Sampled: 05/05/21
Lab Sample ID: JD24770-31		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329438.D	1	05/18/21 14:52	BK	n/a	n/a	VL9854
Run #2	L329344.D	10	05/16/21 20:25	BK	n/a	n/a	VL9850

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-33	Date Sampled:	05/05/21
Lab Sample ID:	JD24770-31	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	222 ^b	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.1	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	37.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	95%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-33		Date Sampled: 05/05/21
Lab Sample ID: JD24770-31		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%	103%	80-121%
2037-26-5	Toluene-D8	107%	106%	80-120%
460-00-4	4-Bromofluorobenzene	98%	96%	80-120%

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28		Date Sampled: 05/05/21
Lab Sample ID: JD24770-32		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329337.D	1	05/16/21 17:17	BK	n/a	n/a	VL9850
Run #2	L329389.D	5	05/17/21 16:47	BK	n/a	n/a	VL9852

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-28	Date Sampled:	05/05/21
Lab Sample ID:	JD24770-32	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	292 ^b	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	114	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^c	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	99%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28		Date Sampled: 05/05/21
Lab Sample ID: JD24770-32		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	107%	80-121%
2037-26-5	Toluene-D8	107%	108%	80-120%
460-00-4	4-Bromofluorobenzene	97%	98%	80-120%

- (a) Associated CCV outside of control limits low.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-109		Date Sampled: 05/05/21
Lab Sample ID: JD24770-33		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329436.D	1	05/18/21 13:59	BK	n/a	n/a	VL9854
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	101	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.5	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-109		Date Sampled: 05/05/21
Lab Sample ID: JD24770-33		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	58.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	35.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-109		Date Sampled: 05/05/21
Lab Sample ID: JD24770-33		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-404		Date Sampled: 05/05/21
Lab Sample ID: JD24770-34		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329343.D	1	05/16/21 19:58	BK	n/a	n/a	VL9850
Run #2	L329437.D	5	05/18/21 14:26	BK	n/a	n/a	VL9854

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	8.2	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	72.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-404	Date Sampled:	05/05/21
Lab Sample ID:	JD24770-34	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	254 ^b	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	95.5	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	45.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^c	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-404		Date Sampled: 05/05/21
Lab Sample ID: JD24770-34		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	107%	80-121%
2037-26-5	Toluene-D8	109%	107%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	80-120%

- (a) Associated CCV outside of control limits low.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		
Lab Sample ID: JD24770-35		Date Sampled: 05/05/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329338.D	1	05/16/21 17:44	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	50.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-19	Date Sampled:	05/05/21
Lab Sample ID:	JD24770-35	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	186	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	13.1	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	56.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		Date Sampled: 05/05/21
Lab Sample ID: JD24770-35		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK 01	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-36	Date Received:	05/07/21
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329334.D	1	05/16/21 15:57	BK	n/a	n/a	VL9850
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK 01	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-36	Date Received:	05/07/21
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK 01	
Lab Sample ID: JD24770-36	Date Sampled: 05/06/21
Matrix: AQ - Trip Blank Water	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A		Date Sampled: 05/06/21
Lab Sample ID: JD24770-37		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329368.D	1	05/17/21 07:10	BK	n/a	n/a	VL9851
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-408A	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-37	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane ^a	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	6.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	67.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A	
Lab Sample ID: JD24770-37	Date Sampled: 05/06/21
Matrix: AQ - Ground Water	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-403		
Lab Sample ID: JD24770-38		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329341.D	25	05/16/21 19:05	BK	n/a	n/a	VL9850
Run #2	L329439.D	100	05/18/21 15:19	BK	n/a	n/a	VL9854

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	1380	250	ug/l	
71-43-2	Benzene	302	13	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	1750	250	ug/l	
104-51-8	n-Butylbenzene	ND	50	ug/l	
135-98-8	sec-Butylbenzene	ND	50	ug/l	
98-06-6	tert-Butylbenzene	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	1060	25	ug/l	
67-66-3	Chloroform	ND	25	ug/l	
74-87-3	Chloromethane	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	50	ug/l	
106-43-4	p-Chlorotoluene	ND	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	4690	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethene	1280	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	5550 ^b	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-403	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-38	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	924	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	130	ug/l	
74-88-4	Iodomethane ^c	ND	50	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	362	130	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	225	50	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	50	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
127-18-4	Tetrachloroethene	ND	25	ug/l	
108-88-3	Toluene	900	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	5030 ^b	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
79-01-6	Trichloroethene	ND	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	159	50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	60.1	50	ug/l	
108-05-4	Vinyl Acetate ^d	ND	250	ug/l	
75-01-4	Vinyl chloride	485	25	ug/l	
	m,p-Xylene	2420	25	ug/l	
95-47-6	o-Xylene	1210	25	ug/l	
1330-20-7	Xylene (total)	3630	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	98%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-403		Date Sampled: 05/06/21
Lab Sample ID: JD24770-38		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	105%	80-121%
2037-26-5	Toluene-D8	103%	103%	80-120%
460-00-4	4-Bromofluorobenzene	94%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits low.
- (d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-101		Date Sampled: 05/06/21
Lab Sample ID: JD24770-39		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329342.D	200	05/16/21 19:32	BK	n/a	n/a	VL9850
Run #2	L329440.D	1000	05/18/21 15:46	BK	n/a	n/a	VL9854

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2000	ug/l	
71-43-2	Benzene	ND	100	ug/l	
108-86-1	Bromobenzene	ND	200	ug/l	
74-97-5	Bromochloromethane	ND	200	ug/l	
75-27-4	Bromodichloromethane	ND	200	ug/l	
75-25-2	Bromoform	ND	200	ug/l	
74-83-9	Bromomethane	ND	400	ug/l	
78-93-3	2-Butanone (MEK)	ND	2000	ug/l	
104-51-8	n-Butylbenzene	ND	400	ug/l	
135-98-8	sec-Butylbenzene	ND	400	ug/l	
98-06-6	tert-Butylbenzene	ND	400	ug/l	
75-15-0	Carbon disulfide	ND	400	ug/l	
56-23-5	Carbon tetrachloride	ND	200	ug/l	
108-90-7	Chlorobenzene	ND	200	ug/l	
75-00-3	Chloroethane	ND	200	ug/l	
67-66-3	Chloroform	ND	200	ug/l	
74-87-3	Chloromethane	ND	200	ug/l	
95-49-8	o-Chlorotoluene	ND	400	ug/l	
106-43-4	p-Chlorotoluene	ND	400	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	ug/l	
124-48-1	Dibromochloromethane	ND	200	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	ug/l	
75-35-4	1,1-Dichloroethene	ND	200	ug/l	
156-59-2	cis-1,2-Dichloroethene	1980	200	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	200	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-101		Date Sampled: 05/06/21
Lab Sample ID: JD24770-39		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	200	ug/l	
594-20-7	2,2-Dichloropropane	ND	200	ug/l	
563-58-6	1,1-Dichloropropene	ND	200	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	ug/l	
100-41-4	Ethylbenzene	ND	200	ug/l	
87-68-3	Hexachlorobutadiene	ND	400	ug/l	
591-78-6	2-Hexanone	ND	1000	ug/l	
74-88-4	Iodomethane ^b	ND	400	ug/l	
98-82-8	Isopropylbenzene	ND	200	ug/l	
99-87-6	p-Isopropyltoluene	ND	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	ug/l	
74-95-3	Methylene bromide	ND	200	ug/l	
75-09-2	Methylene chloride	ND	400	ug/l	
91-20-3	Naphthalene	ND	1000	ug/l	
103-65-1	n-Propylbenzene	ND	400	ug/l	
100-42-5	Styrene	ND	200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	200	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	ug/l	
127-18-4	Tetrachloroethene	66400 ^c	1000	ug/l	
108-88-3	Toluene	ND	200	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	ug/l	
71-55-6	1,1,1-Trichloroethane	3570	200	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	ug/l	
79-01-6	Trichloroethene	646	200	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	400	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	400	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	400	ug/l	
108-05-4	Vinyl Acetate ^d	ND	2000	ug/l	
75-01-4	Vinyl chloride	ND	200	ug/l	
	m,p-Xylene	ND	200	ug/l	
95-47-6	o-Xylene	ND	200	ug/l	
1330-20-7	Xylene (total)	ND	200	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-101		Date Sampled: 05/06/21
Lab Sample ID: JD24770-39		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%	108%	80-121%
2037-26-5	Toluene-D8	109%	106%	80-120%
460-00-4	4-Bromofluorobenzene	96%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-01		
Lab Sample ID: JD24770-40		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329353.D	20	05/17/21 00:27	BK	n/a	n/a	VL9851
Run #2	L329490.D	200	05/19/21 15:19	BK	n/a	n/a	VL9856

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	200	ug/l	
71-43-2	Benzene	ND	10	ug/l	
108-86-1	Bromobenzene	ND	20	ug/l	
74-97-5	Bromochloromethane	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
74-83-9	Bromomethane	ND	40	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	ug/l	
104-51-8	n-Butylbenzene	ND	40	ug/l	
135-98-8	sec-Butylbenzene	ND	40	ug/l	
98-06-6	tert-Butylbenzene	ND	40	ug/l	
75-15-0	Carbon disulfide	ND	40	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	20	ug/l	
67-66-3	Chloroform	56.8	20	ug/l	
74-87-3	Chloromethane	ND	20	ug/l	
95-49-8	o-Chlorotoluene	ND	40	ug/l	
106-43-4	p-Chlorotoluene	ND	40	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	40.9	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	4840 ^b	200	ug/l	
156-60-5	trans-1,2-Dichloroethene	63.7	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-01	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-40	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	20	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	ND	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
74-88-4	Iodomethane ^c	ND	40	ug/l	
98-82-8	Isopropylbenzene	ND	20	ug/l	
99-87-6	p-Isopropyltoluene	ND	40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
74-95-3	Methylene bromide	ND	20	ug/l	
75-09-2	Methylene chloride	ND	40	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	40	ug/l	
100-42-5	Styrene	ND	20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	14900 ^b	200	ug/l	
108-88-3	Toluene	ND	20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	199	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
79-01-6	Trichloroethene	5850 ^b	200	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	ug/l	
108-05-4	Vinyl Acetate	ND	200	ug/l	
75-01-4	Vinyl chloride	ND	20	ug/l	
	m,p-Xylene	ND	20	ug/l	
95-47-6	o-Xylene	ND	20	ug/l	
1330-20-7	Xylene (total)	ND	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	104%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-01		Date Sampled: 05/06/21
Lab Sample ID: JD24770-40		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	109%	80-121%
2037-26-5	Toluene-D8	110%	102%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-05		
Lab Sample ID: JD24770-41		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329370.D	250	05/17/21 08:04	BK	n/a	n/a	VL9851
Run #2	L329493.D	2500	05/19/21 16:40	BK	n/a	n/a	VL9856

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	130	ug/l	
108-86-1	Bromobenzene	ND	250	ug/l	
74-97-5	Bromochloromethane	ND	250	ug/l	
75-27-4	Bromodichloromethane	ND	250	ug/l	
75-25-2	Bromoform	ND	250	ug/l	
74-83-9	Bromomethane	ND	500	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	ug/l	
104-51-8	n-Butylbenzene	ND	500	ug/l	
135-98-8	sec-Butylbenzene	ND	500	ug/l	
98-06-6	tert-Butylbenzene	ND	500	ug/l	
75-15-0	Carbon disulfide	ND	500	ug/l	
56-23-5	Carbon tetrachloride	ND	250	ug/l	
108-90-7	Chlorobenzene	ND	250	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	1900	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
95-49-8	o-Chlorotoluene	ND	500	ug/l	
106-43-4	p-Chlorotoluene	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	ug/l	
75-35-4	1,1-Dichloroethene	496	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	4430	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-05	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-41	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	250	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/l	
100-41-4	Ethylbenzene	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	ug/l	
591-78-6	2-Hexanone	ND	1300	ug/l	
74-88-4	Iodomethane ^b	ND	500	ug/l	
98-82-8	Isopropylbenzene	ND	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1300	ug/l	
74-95-3	Methylene bromide	ND	250	ug/l	
75-09-2	Methylene chloride	926	500	ug/l	
91-20-3	Naphthalene	ND	1300	ug/l	
103-65-1	n-Propylbenzene	ND	500	ug/l	
100-42-5	Styrene	ND	250	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/l	
127-18-4	Tetrachloroethene	88000 ^c	2500	ug/l	
108-88-3	Toluene	ND	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/l	
71-55-6	1,1,1-Trichloroethane	5670	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/l	
79-01-6	Trichloroethene	12900	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	ug/l	
108-05-4	Vinyl Acetate	ND	2500	ug/l	
75-01-4	Vinyl chloride	476	250	ug/l	
	m,p-Xylene	ND	250	ug/l	
95-47-6	o-Xylene	ND	250	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	99%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-05		Date Sampled: 05/06/21
Lab Sample ID: JD24770-41		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	104%	80-121%
2037-26-5	Toluene-D8	103%	107%	80-120%
460-00-4	4-Bromofluorobenzene	100%	101%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-07		
Lab Sample ID: JD24770-42		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329371.D	100	05/17/21 08:31	BK	n/a	n/a	VL9851
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
108-86-1	Bromobenzene	ND	100	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
104-51-8	n-Butylbenzene	ND	200	ug/l	
135-98-8	sec-Butylbenzene	ND	200	ug/l	
98-06-6	tert-Butylbenzene	ND	200	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
95-49-8	o-Chlorotoluene	ND	200	ug/l	
106-43-4	p-Chlorotoluene	ND	200	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-07	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-42	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
74-88-4	Iodomethane ^b	ND	200	ug/l	
98-82-8	Isopropylbenzene	ND	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
74-95-3	Methylene bromide	ND	100	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
91-20-3	Naphthalene	ND	500	ug/l	
103-65-1	n-Propylbenzene	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	12200	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	372	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	ND	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	200	ug/l	
108-05-4	Vinyl Acetate	ND	1000	ug/l	
75-01-4	Vinyl chloride	ND	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-07		Date Sampled: 05/06/21
Lab Sample ID: JD24770-42		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-13		
Lab Sample ID: JD24770-43		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329372.D	250	05/17/21 08:58	BK	n/a	n/a	VL9851
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	130	ug/l	
108-86-1	Bromobenzene	ND	250	ug/l	
74-97-5	Bromochloromethane	ND	250	ug/l	
75-27-4	Bromodichloromethane	ND	250	ug/l	
75-25-2	Bromoform	ND	250	ug/l	
74-83-9	Bromomethane	ND	500	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	ug/l	
104-51-8	n-Butylbenzene	ND	500	ug/l	
135-98-8	sec-Butylbenzene	ND	500	ug/l	
98-06-6	tert-Butylbenzene	ND	500	ug/l	
75-15-0	Carbon disulfide	ND	500	ug/l	
56-23-5	Carbon tetrachloride	ND	250	ug/l	
108-90-7	Chlorobenzene	ND	250	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	ND	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
95-49-8	o-Chlorotoluene	ND	500	ug/l	
106-43-4	p-Chlorotoluene	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	ug/l	
75-35-4	1,1-Dichloroethene	ND	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-13	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-43	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	250	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/l	
100-41-4	Ethylbenzene	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	ug/l	
591-78-6	2-Hexanone	ND	1300	ug/l	
74-88-4	Iodomethane ^b	ND	500	ug/l	
98-82-8	Isopropylbenzene	ND	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1300	ug/l	
74-95-3	Methylene bromide	ND	250	ug/l	
75-09-2	Methylene chloride	ND	500	ug/l	
91-20-3	Naphthalene	ND	1300	ug/l	
103-65-1	n-Propylbenzene	ND	500	ug/l	
100-42-5	Styrene	ND	250	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/l	
127-18-4	Tetrachloroethene	39200	250	ug/l	
108-88-3	Toluene	ND	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/l	
71-55-6	1,1,1-Trichloroethane	7910	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/l	
79-01-6	Trichloroethene	349	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	ug/l	
108-05-4	Vinyl Acetate	ND	2500	ug/l	
75-01-4	Vinyl chloride	ND	250	ug/l	
	m,p-Xylene	633	250	ug/l	
95-47-6	o-Xylene	282	250	ug/l	
1330-20-7	Xylene (total)	915	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-13	
Lab Sample ID: JD24770-43	Date Sampled: 05/06/21
Matrix: AQ - Ground Water	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 01		
Lab Sample ID: JD24770-44		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329452.D	100	05/18/21 21:09	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
108-86-1	Bromobenzene	ND	100	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane ^b	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
104-51-8	n-Butylbenzene	ND	200	ug/l	
135-98-8	sec-Butylbenzene	ND	200	ug/l	
98-06-6	tert-Butylbenzene	ND	200	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	ND	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
95-49-8	o-Chlorotoluene	ND	200	ug/l	
106-43-4	p-Chlorotoluene	ND	200	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	4310	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 01		Date Sampled: 05/06/21
Lab Sample ID: JD24770-44		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
74-88-4	Iodomethane ^b	ND	200	ug/l	
98-82-8	Isopropylbenzene	ND	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
74-95-3	Methylene bromide	ND	100	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
91-20-3	Naphthalene	ND	500	ug/l	
103-65-1	n-Propylbenzene	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	13800	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	5610	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	200	ug/l	
108-05-4	Vinyl Acetate	ND	1000	ug/l	
75-01-4	Vinyl chloride	ND	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 01	
Lab Sample ID: JD24770-44	Date Sampled: 05/06/21
Matrix: AQ - Ground Water	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		80-121%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits low.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 02		
Lab Sample ID: JD24770-45		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329454.D	250	05/18/21 22:03	BK	n/a	n/a	VL9854
Run #2	L329446.D	2500	05/18/21 18:28	BK	n/a	n/a	VL9854

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	130	ug/l	
108-86-1	Bromobenzene	ND	250	ug/l	
74-97-5	Bromochloromethane	ND	250	ug/l	
75-27-4	Bromodichloromethane	ND	250	ug/l	
75-25-2	Bromoform	ND	250	ug/l	
74-83-9	Bromomethane ^b	ND	500	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	ug/l	
104-51-8	n-Butylbenzene	ND	500	ug/l	
135-98-8	sec-Butylbenzene	ND	500	ug/l	
98-06-6	tert-Butylbenzene	ND	500	ug/l	
75-15-0	Carbon disulfide	ND	500	ug/l	
56-23-5	Carbon tetrachloride	ND	250	ug/l	
108-90-7	Chlorobenzene	ND	250	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	1900	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
95-49-8	o-Chlorotoluene	ND	500	ug/l	
106-43-4	p-Chlorotoluene	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	ug/l	
75-35-4	1,1-Dichloroethene	555	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	4350	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 02	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-45	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	250	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/l	
100-41-4	Ethylbenzene	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	ug/l	
591-78-6	2-Hexanone	ND	1300	ug/l	
74-88-4	Iodomethane ^b	ND	500	ug/l	
98-82-8	Isopropylbenzene	ND	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1300	ug/l	
74-95-3	Methylene bromide	ND	250	ug/l	
75-09-2	Methylene chloride	933	500	ug/l	
91-20-3	Naphthalene	ND	1300	ug/l	
103-65-1	n-Propylbenzene	ND	500	ug/l	
100-42-5	Styrene	ND	250	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/l	
127-18-4	Tetrachloroethene	101000 ^c	2500	ug/l	
108-88-3	Toluene	ND	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/l	
71-55-6	1,1,1-Trichloroethane	5530	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/l	
79-01-6	Trichloroethene	12100	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	ug/l	
108-05-4	Vinyl Acetate	ND	2500	ug/l	
75-01-4	Vinyl chloride	443	250	ug/l	
	m,p-Xylene	ND	250	ug/l	
95-47-6	o-Xylene	ND	250	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 02		Date Sampled: 05/06/21
Lab Sample ID: JD24770-45		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	107%	80-121%
2037-26-5	Toluene-D8	108%	105%	80-120%
460-00-4	4-Bromofluorobenzene	96%	99%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 03		
Lab Sample ID: JD24770-46		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329453.D	250	05/18/21 21:36	BK	n/a	n/a	VL9854
Run #2	L329488.D	1000	05/19/21 14:13	BK	n/a	n/a	VL9856

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2500	ug/l	
71-43-2	Benzene	ND	130	ug/l	
108-86-1	Bromobenzene	ND	250	ug/l	
74-97-5	Bromochloromethane	ND	250	ug/l	
75-27-4	Bromodichloromethane	ND	250	ug/l	
75-25-2	Bromoform	ND	250	ug/l	
74-83-9	Bromomethane ^b	ND	500	ug/l	
78-93-3	2-Butanone (MEK)	ND	2500	ug/l	
104-51-8	n-Butylbenzene	ND	500	ug/l	
135-98-8	sec-Butylbenzene	ND	500	ug/l	
98-06-6	tert-Butylbenzene	ND	500	ug/l	
75-15-0	Carbon disulfide	ND	500	ug/l	
56-23-5	Carbon tetrachloride	ND	250	ug/l	
108-90-7	Chlorobenzene	ND	250	ug/l	
75-00-3	Chloroethane	ND	250	ug/l	
67-66-3	Chloroform	ND	250	ug/l	
74-87-3	Chloromethane	ND	250	ug/l	
95-49-8	o-Chlorotoluene	ND	500	ug/l	
106-43-4	p-Chlorotoluene	ND	500	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	ug/l	
124-48-1	Dibromochloromethane	ND	250	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	ug/l	
75-35-4	1,1-Dichloroethene	ND	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	1760	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP 03	Date Sampled:	05/06/21
Lab Sample ID:	JD24770-46	Date Received:	05/07/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	250	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	ug/l	
563-58-6	1,1-Dichloropropene	ND	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	ug/l	
100-41-4	Ethylbenzene	ND	250	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	ug/l	
591-78-6	2-Hexanone	ND	1300	ug/l	
74-88-4	Iodomethane ^b	ND	500	ug/l	
98-82-8	Isopropylbenzene	ND	250	ug/l	
99-87-6	p-Isopropyltoluene	ND	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1300	ug/l	
74-95-3	Methylene bromide	ND	250	ug/l	
75-09-2	Methylene chloride	ND	500	ug/l	
91-20-3	Naphthalene	ND	1300	ug/l	
103-65-1	n-Propylbenzene	ND	500	ug/l	
100-42-5	Styrene	ND	250	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	ug/l	
127-18-4	Tetrachloroethene	68200 ^c	1000	ug/l	
108-88-3	Toluene	ND	250	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	ug/l	
71-55-6	1,1,1-Trichloroethane	3410	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	ug/l	
79-01-6	Trichloroethene	598	250	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	ug/l	
108-05-4	Vinyl Acetate	ND	2500	ug/l	
75-01-4	Vinyl chloride	ND	250	ug/l	
	m,p-Xylene	ND	250	ug/l	
95-47-6	o-Xylene	ND	250	ug/l	
1330-20-7	Xylene (total)	ND	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 03		Date Sampled: 05/06/21
Lab Sample ID: JD24770-46		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	107%	80-121%
2037-26-5	Toluene-D8	108%	104%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



GW
EB
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

TF-042521-22

PAGE 1 OF 5

FEDEX Tracking # 930443704072
Bottle Order Control # TF0542042
SGS Quote # GES MA #11905-00
SGS Job # JD24770

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes								
Company Name Groundwater and Environmental Services, Inc.		Project Name BASF Lewiston		<p style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs Full 1st 6, EPA 826</p>												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank								
Street Address One Park Drive, Suite 8		Street 55 Crowley Road																						
City State Zip Westford MA 01886		City State Lewiston ME		Billing Information (if different from Report to) Company Name												LAB USE ONLY								
Project Contact Kevin Kitchin		Project # 1605501		Matrix Matrix Code																				
E-mail kkitchin@gesonline.com		Client Purchase Order # 1605501/52/873 ORG 1116		Number of preserved bottles Matrix Code																				
Phone # 1-800-221-6119 ext. 3230		City State Zip		Matrix Code																				
Sample(s) Name(s) Paul Cicchetti, Donald Curtis		Project Manager Kevin Kitchin		Matrix Code																				
Phone #		Attention GES-invoices@gesonline.com		Matrix Code																				
Field ID / Point of Collection		Date		Time		Sampled by		Matrix		# of bottles		Matrix Code												
1 PZ-23		5-3-21		1315		PSC		GW		3 3		Matrix Code												
2 PZ-21		5-3-21		1410		PSC		GW		3 3		Matrix Code												V603
3 RZ-12		5-3-21		1330		DC		GW		3 3		Matrix Code												
4 MW-204		5-3-21		1440		DC		GW		3 3		Matrix Code												V604
5 Equipment Blank 1		5-3-21		1425		PSC		EB		3 3		Matrix Code												
6 Equipment Blank 2		5-3-21		1430		PSC		EB		3 3		Matrix Code												
7 Equipment Blank 3		5-3-21		1435		PSC		EB		3 3		Matrix Code												
8 TWP-23		5-4-21		0840		PSC		GW		3 3		Matrix Code												
9 TWP-25		5-4-21		0925		PSC		GW		3 3		Matrix Code												
10 PZ-16		5-4-21		1010		PSC		GW		3 3		Matrix Code												
11 TWP-26		5-4-21		1050		PSC		GW		3 3		Matrix Code												

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Approved by (SGS Project Manager) Date:

Std. 10 Business Day RUSH
 5 Day RUSH
 3 Day RUSH
 2 Day RUSH
 1 Day RUSH
 other

INITIAL ASSESSMENT 2B-PP

LABEL VERIFICATION

Commercial "A" = Results Only Commercial "B" = Results + OC Summary

NYASP Category A
 NYASP Category B
 State Forms
 EDD Format E-Units
 Other ME DEP

NJ Data of Known Quality Protocol Reporting

Comments / Special Instructions

Please email lab report to kkitchin@gesonline.com and NERegion@gesonline.com

Please email invoices to GES-invoices@gesonline.com. Laboratory Reporting limits should meet ME/DEP GW Quality Standards.

Sample inventory is verified upon receipt in the Laboratory

Requisition #	Sampler	Date Time	Received By	Requisition #	Sampler	Date Time	Received By
1	114	5-6-21 1425	<i>[Signature]</i>	2	114	5/12/21 1407	<i>[Signature]</i>
3	114	5/12/21 1520	<i>[Signature]</i>	4	114	5/12/21 1604	<i>[Signature]</i>
5	114	5/12/21 1630	<i>[Signature]</i>				

SGS-ACCUATEST
MARLBOR
5/2

JD24770: Chain of Custody

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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

JD24770

93044370 4072 Bottle Order Control # TF0542042
SGS Code # GES MA #11905-00 SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, Date, Time, Sampled by, Matrix, # of bottles, etc.

4.1 4





CHAIN OF CUSTODY

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www.sgs.com/ehusa

JD 24770

PAGE 3 OF 5

Field Order # 9304 4370 4072
Bottle Order Control # TF0542042
SGS Invoice # GES MA #11905-00
SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, Date, Time, Sampled by, Matrix, # of bottles, Data Deliverable Information, Sample Custody must be documented below each time samples change possession, including courier delivery.

4.1
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JD24770: Chain of Custody

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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
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www.sgs.com/ehsusa

JD 24770
PAGE 4 OF 5

93024372 4072
Bottle Order Control # TF0542042
SGS Quote # GES MA #11905-00
SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, MEQHD1, Date, Time, Sampled by, Matrix, # of bottles, etc.

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JD24770



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

Lab Sample # 23044370 4072
SGS Quote # GES MA #11905-00
Bottle Order Control # TF0542042
SGS Job #

Form containing Client/Reporting Information, Project Information, Requested Analysis, Matrix Codes, Lab Sample #, Date, Time, and various checkboxes for reporting and delivery options.

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SGS-ACCUTEST
MARLBOR 5/2

SGS Sample Receipt Summary

Job Number: JD24770

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 5/7/2021 6:00:00 PM

Delivery Method: FEDEX

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

Cooler Security

	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature

	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

	<u>Y or N</u>		<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Documentation

	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Condition

	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

Sample Integrity - Instructions

	<u>Y or N</u>		<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-02 Rev. Date 12/1/16

JD24770: Chain of Custody

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Responded to by:

Response Date:

4.1

4

JD24770: Chain of Custody
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SGS Sample Receipt Summary

Job Number: JD24770

Client: Groundwater and Environmental Service

Project: BASF LEWISTON

Date / Time Received: 5/7/2021

Delivery Method:

Airbill #s:

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____

Comments 1). On page 2 for samples 12-22, No collection dates on the COC. Please Confirm.

JD24770: Chain of Custody

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-12-22: Collection date is 5/4/2021.
Per Donald Curtiss

JD24770: Chain of Custody
Page 9 of 9

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-MB	2E168559.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

5.1.1
5

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-MB	2E168559.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-MB	2E168559.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	97%	85-118%
17060-07-0	1,2-Dichloroethane-D4	89%	80-121%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-MB	2E168592.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-MB	2E168592.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	0.56	2.0	ug/l	J
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-MB	2E168592.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	98%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-MB	L329325.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-MB	L329325.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-MB	L329325.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	80-121%
2037-26-5	Toluene-D8	106%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	1.56	8.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-MB	L329352.D	1	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-MB	L329352.D	1	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-MB	L329352.D	1	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 85-118%
17060-07-0	1,2-Dichloroethane-D4	105% 80-121%
2037-26-5	Toluene-D8	106% 80-120%
460-00-4	4-Bromofluorobenzene	99% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifacts	1.56	8	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9852-MB	L329378.D	1	05/17/21	BK	n/a	n/a	VL9852

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-32

CAS No.	Compound	Result	RL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	96%	85-118%
17060-07-0	1,2-Dichloroethane-D4	107%	80-121%
2037-26-5	Toluene-D8	108%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.56	6.9	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-MB	2E168630.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

5.1.6
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Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-MB	2E168630.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-MB	2E168630.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 85-118%
17060-07-0	1,2-Dichloroethane-D4	102% 80-121%
2037-26-5	Toluene-D8	97% 80-120%
460-00-4	4-Bromofluorobenzene	94% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-MB	X190910.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-MB	X190910.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-MB	X190910.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	113%	85-118%
17060-07-0	1,2-Dichloroethane-D4	103%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10347-MB	A264281.D	1	05/18/21	KC	n/a	n/a	VA10347

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	107% 85-118%
17060-07-0	1,2-Dichloroethane-D4	92% 80-121%
2037-26-5	Toluene-D8	94% 80-120%
460-00-4	4-Bromofluorobenzene	94% 80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

5.1.8
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Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-MB	L329432.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-MB	L329432.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

5.1.9
5

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-MB	L329432.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	109%	80-121%
2037-26-5	Toluene-D8	106%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	system artifact	1.56	6.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

5.1.9
5

Method Blank Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9856-MB	L329483.D	1	05/19/21	BK	n/a	n/a	VL9856

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-40, JD24770-41, JD24770-46

CAS No.	Compound	Result	RL	Units	Q
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	98%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	80-121%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.56	5.9	ug/l	J
	Total TIC, Volatile		0	ug/l	

5.1.10
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-BS	2E168557.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	188	94	63-137
71-43-2	Benzene	50	47.3	95	78-117
108-86-1	Bromobenzene	50	48.1	96	82-121
74-97-5	Bromochloromethane	50	49.3	99	83-124
75-27-4	Bromodichloromethane	50	47.9	96	83-123
75-25-2	Bromoform	50	54.3	109	80-140
74-83-9	Bromomethane	50	51.5	103	26-167
78-93-3	2-Butanone (MEK)	200	187	94	73-135
104-51-8	n-Butylbenzene	50	51.7	103	78-126
135-98-8	sec-Butylbenzene	50	48.4	97	78-122
98-06-6	tert-Butylbenzene	50	47.4	95	77-122
75-15-0	Carbon disulfide	50	49.8	100	60-131
56-23-5	Carbon tetrachloride	50	46.7	93	75-127
108-90-7	Chlorobenzene	50	47.6	95	83-115
75-00-3	Chloroethane	50	48.5	97	61-135
67-66-3	Chloroform	50	44.5	89	76-118
74-87-3	Chloromethane	50	48.2	96	46-144
95-49-8	o-Chlorotoluene	50	48.5	97	80-120
106-43-4	p-Chlorotoluene	50	44.9	90	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	45.9	92	75-135
124-48-1	Dibromochloromethane	50	48.8	98	84-128
106-93-4	1,2-Dibromoethane	50	42.7	85	82-129
95-50-1	1,2-Dichlorobenzene	50	47.7	95	85-117
541-73-1	1,3-Dichlorobenzene	50	47.5	95	83-116
106-46-7	1,4-Dichlorobenzene	50	49.6	99	82-115
75-71-8	Dichlorodifluoromethane	50	41.1	82	49-153
75-34-3	1,1-Dichloroethane	50	46.9	94	75-122
107-06-2	1,2-Dichloroethane	50	41.4	83	74-116
75-35-4	1,1-Dichloroethene	50	45.4	91	68-129
156-59-2	cis-1,2-Dichloroethene	50	48.5	97	78-120
156-60-5	trans-1,2-Dichloroethene	50	47.8	96	74-125
78-87-5	1,2-Dichloropropane	50	46.9	94	80-120
142-28-9	1,3-Dichloropropane	50	44.8	90	82-116
594-20-7	2,2-Dichloropropane	50	46.1	92	70-128
563-58-6	1,1-Dichloropropene	50	47.5	95	75-121
10061-01-5	cis-1,3-Dichloropropene	50	51.2	102	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-BS	2E168557.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	49.3	99	84-124
100-41-4	Ethylbenzene	50	46.8	94	80-115
87-68-3	Hexachlorobutadiene	50	54.9	110	68-137
591-78-6	2-Hexanone	200	182	91	74-132
74-88-4	Iodomethane	50	45.0	90	10-200
98-82-8	Isopropylbenzene	50	48.2	96	79-120
99-87-6	p-Isopropyltoluene	50	50.9	102	80-122
1634-04-4	Methyl Tert Butyl Ether	50	44.2	88	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	175	88	77-129
74-95-3	Methylene bromide	50	45.2	90	83-121
75-09-2	Methylene chloride	50	45.8	92	74-125
91-20-3	Naphthalene	50	50.7	101	73-138
103-65-1	n-Propylbenzene	50	47.5	95	78-117
100-42-5	Styrene	50	52.3	105	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	50.5	101	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	42.3	85	78-122
127-18-4	Tetrachloroethene	50	41.2	82	75-125
108-88-3	Toluene	50	47.4	95	80-115
87-61-6	1,2,3-Trichlorobenzene	50	56.3	113	73-140
120-82-1	1,2,4-Trichlorobenzene	50	58.9	118	77-137
71-55-6	1,1,1-Trichloroethane	50	44.6	89	77-124
79-00-5	1,1,2-Trichloroethane	50	46.9	94	83-118
79-01-6	Trichloroethene	50	46.3	93	80-123
75-69-4	Trichlorofluoromethane	50	44.6	89	71-134
96-18-4	1,2,3-Trichloropropane	50	42.3	85	80-121
95-63-6	1,2,4-Trimethylbenzene	50	47.4	95	81-119
108-67-8	1,3,5-Trimethylbenzene	50	47.6	95	79-120
108-05-4	Vinyl Acetate	50	47.3	95	77-131
75-01-4	Vinyl chloride	50	47.6	95	56-138
	m,p-Xylene	100	97.7	98	81-118
95-47-6	o-Xylene	50	46.3	93	81-119
1330-20-7	Xylene (total)	150	144	96	81-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-BS	2E168557.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	88%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-BS	2E168590.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	252	126	63-137
71-43-2	Benzene	50	50.7	101	78-117
108-86-1	Bromobenzene	50	49.2	98	82-121
74-97-5	Bromochloromethane	50	52.7	105	83-124
75-27-4	Bromodichloromethane	50	51.1	102	83-123
75-25-2	Bromoform	50	62.4	125	80-140
74-83-9	Bromomethane	50	50.7	101	26-167
78-93-3	2-Butanone (MEK)	200	254	127	73-135
104-51-8	n-Butylbenzene	50	54.8	110	78-126
135-98-8	sec-Butylbenzene	50	50.7	101	78-122
98-06-6	tert-Butylbenzene	50	49.3	99	77-122
75-15-0	Carbon disulfide	50	53.9	108	60-131
56-23-5	Carbon tetrachloride	50	49.8	100	75-127
108-90-7	Chlorobenzene	50	49.8	100	83-115
75-00-3	Chloroethane	50	48.1	96	61-135
67-66-3	Chloroform	50	46.5	93	76-118
74-87-3	Chloromethane	50	45.6	91	46-144
95-49-8	o-Chlorotoluene	50	50.1	100	80-120
106-43-4	p-Chlorotoluene	50	46.2	92	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	57.2	114	75-135
124-48-1	Dibromochloromethane	50	53.0	106	84-128
106-93-4	1,2-Dibromoethane	50	48.6	97	82-129
95-50-1	1,2-Dichlorobenzene	50	50.0	100	85-117
541-73-1	1,3-Dichlorobenzene	50	49.2	98	83-116
106-46-7	1,4-Dichlorobenzene	50	51.6	103	82-115
75-71-8	Dichlorodifluoromethane	50	42.5	85	49-153
75-34-3	1,1-Dichloroethane	50	49.9	100	75-122
107-06-2	1,2-Dichloroethane	50	46.5	93	74-116
75-35-4	1,1-Dichloroethene	50	46.5	93	68-129
156-59-2	cis-1,2-Dichloroethene	50	51.2	102	78-120
156-60-5	trans-1,2-Dichloroethene	50	51.1	102	74-125
78-87-5	1,2-Dichloropropane	50	50.7	101	80-120
142-28-9	1,3-Dichloropropane	50	50.0	100	82-116
594-20-7	2,2-Dichloropropane	50	48.3	97	70-128
563-58-6	1,1-Dichloropropene	50	50.8	102	75-121
10061-01-5	cis-1,3-Dichloropropene	50	55.1	110	84-123

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-BS	2E168590.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	54.2	108	84-124
100-41-4	Ethylbenzene	50	49.1	98	80-115
87-68-3	Hexachlorobutadiene	50	57.6	115	68-137
591-78-6	2-Hexanone	200	245	123	74-132
74-88-4	Iodomethane	50	48.6	97	10-200
98-82-8	Isopropylbenzene	50	50.5	101	79-120
99-87-6	p-Isopropyltoluene	50	53.4	107	80-122
1634-04-4	Methyl Tert Butyl Ether	50	49.5	99	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	232	116	77-129
74-95-3	Methylene bromide	50	50.9	102	83-121
75-09-2	Methylene chloride	50	48.7	97	74-125
91-20-3	Naphthalene	50	61.4	123	73-138
103-65-1	n-Propylbenzene	50	49.2	98	78-117
100-42-5	Styrene	50	55.4	111	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	52.9	106	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	50.2	100	78-122
127-18-4	Tetrachloroethene	50	43.4	87	75-125
108-88-3	Toluene	50	49.9	100	80-115
87-61-6	1,2,3-Trichlorobenzene	50	61.8	124	73-140
120-82-1	1,2,4-Trichlorobenzene	50	63.3	127	77-137
71-55-6	1,1,1-Trichloroethane	50	47.4	95	77-124
79-00-5	1,1,2-Trichloroethane	50	52.3	105	83-118
79-01-6	Trichloroethene	50	49.3	99	80-123
75-69-4	Trichlorofluoromethane	50	44.6	89	71-134
96-18-4	1,2,3-Trichloropropane	50	48.9	98	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.1	98	81-119
108-67-8	1,3,5-Trimethylbenzene	50	49.2	98	79-120
108-05-4	Vinyl Acetate	50	57.4	115	77-131
75-01-4	Vinyl chloride	50	45.9	92	56-138
	m,p-Xylene	100	102	102	81-118
95-47-6	o-Xylene	50	48.5	97	81-119
1330-20-7	Xylene (total)	150	150	100	81-118

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-BS	2E168590.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	89%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-BS	L329323.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	218	109	63-137
71-43-2	Benzene	50	44.8	90	78-117
108-86-1	Bromobenzene	50	46.5	93	82-121
74-97-5	Bromochloromethane	50	48.0	96	83-124
75-27-4	Bromodichloromethane	50	48.3	97	83-123
75-25-2	Bromoform	50	53.1	106	80-140
74-83-9	Bromomethane	50	50.0	100	26-167
78-93-3	2-Butanone (MEK)	200	208	104	73-135
104-51-8	n-Butylbenzene	50	46.6	93	78-126
135-98-8	sec-Butylbenzene	50	44.4	89	78-122
98-06-6	tert-Butylbenzene	50	46.1	92	77-122
75-15-0	Carbon disulfide	50	41.8	84	60-131
56-23-5	Carbon tetrachloride	50	47.3	95	75-127
108-90-7	Chlorobenzene	50	45.4	91	83-115
75-00-3	Chloroethane	50	45.4	91	61-135
67-66-3	Chloroform	50	43.4	87	76-118
74-87-3	Chloromethane	50	44.5	89	46-144
95-49-8	o-Chlorotoluene	50	46.0	92	80-120
106-43-4	p-Chlorotoluene	50	46.4	93	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	53.1	106	75-135
124-48-1	Dibromochloromethane	50	48.9	98	84-128
106-93-4	1,2-Dibromoethane	50	48.7	97	82-129
95-50-1	1,2-Dichlorobenzene	50	48.5	97	85-117
541-73-1	1,3-Dichlorobenzene	50	47.4	95	83-116
106-46-7	1,4-Dichlorobenzene	50	47.6	95	82-115
75-71-8	Dichlorodifluoromethane	50	48.7	97	49-153
75-34-3	1,1-Dichloroethane	50	45.0	90	75-122
107-06-2	1,2-Dichloroethane	50	45.3	91	74-116
75-35-4	1,1-Dichloroethene	50	46.2	92	68-129
156-59-2	cis-1,2-Dichloroethene	50	45.9	92	78-120
156-60-5	trans-1,2-Dichloroethene	50	45.7	91	74-125
78-87-5	1,2-Dichloropropane	50	47.1	94	80-120
142-28-9	1,3-Dichloropropane	50	46.8	94	82-116
594-20-7	2,2-Dichloropropane	50	48.7	97	70-128
563-58-6	1,1-Dichloropropene	50	44.6	89	75-121
10061-01-5	cis-1,3-Dichloropropene	50	48.9	98	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-BS	L329323.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	51.3	103	84-124
100-41-4	Ethylbenzene	50	43.5	87	80-115
87-68-3	Hexachlorobutadiene	50	43.9	88	68-137
591-78-6	2-Hexanone	200	197	99	74-132
74-88-4	Iodomethane	50	38.3	77	10-200
98-82-8	Isopropylbenzene	50	45.1	90	79-120
99-87-6	p-Isopropyltoluene	50	46.0	92	80-122
1634-04-4	Methyl Tert Butyl Ether	50	48.9	98	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	199	100	77-129
74-95-3	Methylene bromide	50	45.9	92	83-121
75-09-2	Methylene chloride	50	44.8	90	74-125
91-20-3	Naphthalene	50	48.4	97	73-138
103-65-1	n-Propylbenzene	50	45.0	90	78-117
100-42-5	Styrene	50	46.2	92	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	48.8	98	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	53.1	106	78-122
127-18-4	Tetrachloroethene	50	43.5	87	75-125
108-88-3	Toluene	50	45.4	91	80-115
87-61-6	1,2,3-Trichlorobenzene	50	46.7	93	73-140
120-82-1	1,2,4-Trichlorobenzene	50	48.4	97	77-137
71-55-6	1,1,1-Trichloroethane	50	46.0	92	77-124
79-00-5	1,1,2-Trichloroethane	50	47.0	94	83-118
79-01-6	Trichloroethene	50	45.5	91	80-123
75-69-4	Trichlorofluoromethane	50	49.3	99	71-134
96-18-4	1,2,3-Trichloropropane	50	47.6	95	80-121
95-63-6	1,2,4-Trimethylbenzene	50	46.2	92	81-119
108-67-8	1,3,5-Trimethylbenzene	50	46.0	92	79-120
108-05-4	Vinyl Acetate	50	60.2	120	77-131
75-01-4	Vinyl chloride	50	47.4	95	56-138
	m,p-Xylene	100	87.7	88	81-118
95-47-6	o-Xylene	50	45.3	91	81-119
1330-20-7	Xylene (total)	150	133	89	81-118

* = Outside of Control Limits.

5.2.3
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-BS	L329323.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	101%	80-121%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-BS	L329350.D	1	05/16/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	231	116	63-137
71-43-2	Benzene	50	47.7	95	78-117
108-86-1	Bromobenzene	50	47.6	95	82-121
74-97-5	Bromochloromethane	50	48.1	96	83-124
75-27-4	Bromodichloromethane	50	51.5	103	83-123
75-25-2	Bromoform	50	54.4	109	80-140
74-83-9	Bromomethane	50	54.8	110	26-167
78-93-3	2-Butanone (MEK)	200	217	109	73-135
104-51-8	n-Butylbenzene	50	48.6	97	78-126
135-98-8	sec-Butylbenzene	50	46.6	93	78-122
98-06-6	tert-Butylbenzene	50	48.2	96	77-122
75-15-0	Carbon disulfide	50	44.3	89	60-131
56-23-5	Carbon tetrachloride	50	51.8	104	75-127
108-90-7	Chlorobenzene	50	50.5	101	83-115
75-00-3	Chloroethane	50	47.1	94	61-135
67-66-3	Chloroform	50	46.5	93	76-118
74-87-3	Chloromethane	50	45.9	92	46-144
95-49-8	o-Chlorotoluene	50	48.5	97	80-120
106-43-4	p-Chlorotoluene	50	48.0	96	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	52.8	106	75-135
124-48-1	Dibromochloromethane	50	52.2	104	84-128
106-93-4	1,2-Dibromoethane	50	52.6	105	82-129
95-50-1	1,2-Dichlorobenzene	50	50.0	100	85-117
541-73-1	1,3-Dichlorobenzene	50	49.5	99	83-116
106-46-7	1,4-Dichlorobenzene	50	49.0	98	82-115
75-71-8	Dichlorodifluoromethane	50	48.7	97	49-153
75-34-3	1,1-Dichloroethane	50	47.5	95	75-122
107-06-2	1,2-Dichloroethane	50	49.4	99	74-116
75-35-4	1,1-Dichloroethene	50	49.6	99	68-129
156-59-2	cis-1,2-Dichloroethene	50	48.2	96	78-120
156-60-5	trans-1,2-Dichloroethene	50	48.0	96	74-125
78-87-5	1,2-Dichloropropane	50	49.9	100	80-120
142-28-9	1,3-Dichloropropane	50	50.5	101	82-116
594-20-7	2,2-Dichloropropane	50	46.3	93	70-128
563-58-6	1,1-Dichloropropene	50	47.4	95	75-121
10061-01-5	cis-1,3-Dichloropropene	50	51.0	102	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-BS	L329350.D	1	05/16/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.8	108	84-124
100-41-4	Ethylbenzene	50	48.2	96	80-115
87-68-3	Hexachlorobutadiene	50	45.6	91	68-137
591-78-6	2-Hexanone	200	215	108	74-132
74-88-4	Iodomethane	50	41.3	83	10-200
98-82-8	Isopropylbenzene	50	49.7	99	79-120
99-87-6	p-Isopropyltoluene	50	47.1	94	80-122
1634-04-4	Methyl Tert Butyl Ether	50	50.7	101	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	210	105	77-129
74-95-3	Methylene bromide	50	49.3	99	83-121
75-09-2	Methylene chloride	50	47.2	94	74-125
91-20-3	Naphthalene	50	49.5	99	73-138
103-65-1	n-Propylbenzene	50	47.3	95	78-117
100-42-5	Styrene	50	50.7	101	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	53.4	107	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	51.1	102	78-122
127-18-4	Tetrachloroethene	50	48.6	97	75-125
108-88-3	Toluene	50	50.1	100	80-115
87-61-6	1,2,3-Trichlorobenzene	50	47.9	96	73-140
120-82-1	1,2,4-Trichlorobenzene	50	49.2	98	77-137
71-55-6	1,1,1-Trichloroethane	50	50.4	101	77-124
79-00-5	1,1,2-Trichloroethane	50	51.1	102	83-118
79-01-6	Trichloroethene	50	50.5	101	80-123
75-69-4	Trichlorofluoromethane	50	51.8	104	71-134
96-18-4	1,2,3-Trichloropropane	50	49.6	99	80-121
95-63-6	1,2,4-Trimethylbenzene	50	48.3	97	81-119
108-67-8	1,3,5-Trimethylbenzene	50	48.2	96	79-120
108-05-4	Vinyl Acetate	50	45.4	91	77-131
75-01-4	Vinyl chloride	50	49.2	98	56-138
	m,p-Xylene	100	96.7	97	81-118
95-47-6	o-Xylene	50	49.6	99	81-119
1330-20-7	Xylene (total)	150	146	97	81-118

* = Outside of Control Limits.

5.2.4
 5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-BS	L329350.D	1	05/16/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9852-BS	L329376.D	1	05/17/21	BK	n/a	n/a	VL9852

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-32

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethene	50	46.9	94	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-BS	2E168628.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	231	116	63-137
71-43-2	Benzene	50	51.7	103	78-117
108-86-1	Bromobenzene	50	48.3	97	82-121
74-97-5	Bromochloromethane	50	53.4	107	83-124
75-27-4	Bromodichloromethane	50	53.2	106	83-123
75-25-2	Bromoform	50	59.7	119	80-140
74-83-9	Bromomethane	50	53.3	107	26-167
78-93-3	2-Butanone (MEK)	200	236	118	73-135
104-51-8	n-Butylbenzene	50	57.1	114	78-126
135-98-8	sec-Butylbenzene	50	51.7	103	78-122
98-06-6	tert-Butylbenzene	50	49.3	99	77-122
75-15-0	Carbon disulfide	50	54.6	109	60-131
56-23-5	Carbon tetrachloride	50	52.9	106	75-127
108-90-7	Chlorobenzene	50	49.7	99	83-115
75-00-3	Chloroethane	50	55.0	110	61-135
67-66-3	Chloroform	50	50.6	101	76-118
74-87-3	Chloromethane	50	55.2	110	46-144
95-49-8	o-Chlorotoluene	50	50.0	100	80-120
106-43-4	p-Chlorotoluene	50	48.2	96	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	53.8	108	75-135
124-48-1	Dibromochloromethane	50	51.9	104	84-128
106-93-4	1,2-Dibromoethane	50	48.1	96	82-129
95-50-1	1,2-Dichlorobenzene	50	49.5	99	85-117
541-73-1	1,3-Dichlorobenzene	50	48.8	98	83-116
106-46-7	1,4-Dichlorobenzene	50	52.1	104	82-115
75-71-8	Dichlorodifluoromethane	50	46.4	93	49-153
75-34-3	1,1-Dichloroethane	50	55.0	110	75-122
107-06-2	1,2-Dichloroethane	50	50.2	100	74-116
75-35-4	1,1-Dichloroethene	50	51.2	102	68-129
156-59-2	cis-1,2-Dichloroethene	50	52.7	105	78-120
156-60-5	trans-1,2-Dichloroethene	50	55.7	111	74-125
78-87-5	1,2-Dichloropropane	50	54.3	109	80-120
142-28-9	1,3-Dichloropropane	50	51.6	103	82-116
594-20-7	2,2-Dichloropropane	50	51.2	102	70-128
563-58-6	1,1-Dichloropropene	50	54.5	109	75-121
10061-01-5	cis-1,3-Dichloropropene	50	57.1	114	84-123

* = Outside of Control Limits.

5.2.6
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-BS	2E168628.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	55.3	111	84-124
100-41-4	Ethylbenzene	50	50.6	101	80-115
87-68-3	Hexachlorobutadiene	50	55.9	112	68-137
591-78-6	2-Hexanone	200	232	116	74-132
74-88-4	Iodomethane	50	46.9	94	10-200
98-82-8	Isopropylbenzene	50	51.5	103	79-120
99-87-6	p-Isopropyltoluene	50	53.2	106	80-122
1634-04-4	Methyl Tert Butyl Ether	50	53.1	106	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	239	120	77-129
74-95-3	Methylene bromide	50	51.8	104	83-121
75-09-2	Methylene chloride	50	49.7	99	74-125
91-20-3	Naphthalene	50	56.6	113	73-138
103-65-1	n-Propylbenzene	50	51.1	102	78-117
100-42-5	Styrene	50	56.2	112	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	53.1	106	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.6	99	78-122
127-18-4	Tetrachloroethene	50	41.6	83	75-125
108-88-3	Toluene	50	49.9	100	80-115
87-61-6	1,2,3-Trichlorobenzene	50	58.2	116	73-140
120-82-1	1,2,4-Trichlorobenzene	50	59.3	119	77-137
71-55-6	1,1,1-Trichloroethane	50	51.5	103	77-124
79-00-5	1,1,2-Trichloroethane	50	52.8	106	83-118
79-01-6	Trichloroethene	50	50.4	101	80-123
75-69-4	Trichlorofluoromethane	50	48.2	96	71-134
96-18-4	1,2,3-Trichloropropane	50	48.5	97	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	81-119
108-67-8	1,3,5-Trimethylbenzene	50	50.0	100	79-120
108-05-4	Vinyl Acetate	50	54.9	110	77-131
75-01-4	Vinyl chloride	50	53.4	107	56-138
	m,p-Xylene	100	103	103	81-118
95-47-6	o-Xylene	50	50.2	100	81-119
1330-20-7	Xylene (total)	150	154	103	81-118

* = Outside of Control Limits.

5.2.6
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-BS	2E168628.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-BS	X190908.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	311	156* a	63-137
71-43-2	Benzene	50	50.3	101	78-117
108-86-1	Bromobenzene	50	49.4	99	82-121
74-97-5	Bromochloromethane	50	54.8	110	83-124
75-27-4	Bromodichloromethane	50	52.3	105	83-123
75-25-2	Bromoform	50	51.2	102	80-140
74-83-9	Bromomethane	50	60.8	122	26-167
78-93-3	2-Butanone (MEK)	200	256	128	73-135
104-51-8	n-Butylbenzene	50	51.0	102	78-126
135-98-8	sec-Butylbenzene	50	51.7	103	78-122
98-06-6	tert-Butylbenzene	50	47.5	95	77-122
75-15-0	Carbon disulfide	50	57.6	115	60-131
56-23-5	Carbon tetrachloride	50	52.1	104	75-127
108-90-7	Chlorobenzene	50	50.6	101	83-115
75-00-3	Chloroethane	50	63.3	127	61-135
67-66-3	Chloroform	50	51.9	104	76-118
74-87-3	Chloromethane	50	62.8	126	46-144
95-49-8	o-Chlorotoluene	50	47.9	96	80-120
106-43-4	p-Chlorotoluene	50	45.7	91	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	48.5	97	75-135
124-48-1	Dibromochloromethane	50	50.9	102	84-128
106-93-4	1,2-Dibromoethane	50	54.9	110	82-129
95-50-1	1,2-Dichlorobenzene	50	49.6	99	85-117
541-73-1	1,3-Dichlorobenzene	50	49.2	98	83-116
106-46-7	1,4-Dichlorobenzene	50	49.2	98	82-115
75-71-8	Dichlorodifluoromethane	50	47.7	95	49-153
75-34-3	1,1-Dichloroethane	50	57.8	116	75-122
107-06-2	1,2-Dichloroethane	50	49.2	98	74-116
75-35-4	1,1-Dichloroethene	50	54.2	108	68-129
156-59-2	cis-1,2-Dichloroethene	50	53.8	108	78-120
156-60-5	trans-1,2-Dichloroethene	50	54.3	109	74-125
78-87-5	1,2-Dichloropropane	50	50.8	102	80-120
142-28-9	1,3-Dichloropropane	50	52.6	105	82-116
594-20-7	2,2-Dichloropropane	50	53.5	107	70-128
563-58-6	1,1-Dichloropropene	50	52.0	104	75-121
10061-01-5	cis-1,3-Dichloropropene	50	52.1	104	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-BS	X190908.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	50.1	100	84-124
100-41-4	Ethylbenzene	50	50.8	102	80-115
87-68-3	Hexachlorobutadiene	50	45.0	90	68-137
591-78-6	2-Hexanone	200	232	116	74-132
74-88-4	Iodomethane	50	54.5	109	10-200
98-82-8	Isopropylbenzene	50	52.9	106	79-120
99-87-6	p-Isopropyltoluene	50	50.7	101	80-122
1634-04-4	Methyl Tert Butyl Ether	50	49.9	100	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	221	111	77-129
74-95-3	Methylene bromide	50	54.1	108	83-121
75-09-2	Methylene chloride	50	58.3	117	74-125
91-20-3	Naphthalene	50	52.1	104	73-138
103-65-1	n-Propylbenzene	50	48.5	97	78-117
100-42-5	Styrene	50	52.4	105	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	50.1	100	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	50.7	101	78-122
127-18-4	Tetrachloroethene	50	51.2	102	75-125
108-88-3	Toluene	50	50.9	102	80-115
87-61-6	1,2,3-Trichlorobenzene	50	52.5	105	73-140
120-82-1	1,2,4-Trichlorobenzene	50	50.5	101	77-137
71-55-6	1,1,1-Trichloroethane	50	52.5	105	77-124
79-00-5	1,1,2-Trichloroethane	50	54.0	108	83-118
79-01-6	Trichloroethene	50	49.8	100	80-123
75-69-4	Trichlorofluoromethane	50	60.0	120	71-134
96-18-4	1,2,3-Trichloropropane	50	48.2	96	80-121
95-63-6	1,2,4-Trimethylbenzene	50	48.5	97	81-119
108-67-8	1,3,5-Trimethylbenzene	50	48.8	98	79-120
108-05-4	Vinyl Acetate	50	66.4	133* a	77-131
75-01-4	Vinyl chloride	50	62.6	125	56-138
	m,p-Xylene	100	103	103	81-118
95-47-6	o-Xylene	50	50.8	102	81-119
1330-20-7	Xylene (total)	150	154	103	81-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-BS	X190908.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA10347-BS	A264279.D	1	05/18/21	KC	n/a	n/a	VA10347

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	175	88	63-137
127-18-4	Tetrachloroethene	50	41.3	83	75-125
71-55-6	1,1,1-Trichloroethane	50	45.5	91	77-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	92%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	100%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-BS	L329430.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	237	119	63-137
71-43-2	Benzene	50	48.7	97	78-117
108-86-1	Bromobenzene	50	49.1	98	82-121
74-97-5	Bromochloromethane	50	49.1	98	83-124
75-27-4	Bromodichloromethane	50	51.3	103	83-123
75-25-2	Bromoform	50	56.1	112	80-140
74-83-9	Bromomethane	50	49.9	100	26-167
78-93-3	2-Butanone (MEK)	200	222	111	73-135
104-51-8	n-Butylbenzene	50	50.6	101	78-126
135-98-8	sec-Butylbenzene	50	48.1	96	78-122
98-06-6	tert-Butylbenzene	50	49.2	98	77-122
75-15-0	Carbon disulfide	50	44.9	90	60-131
56-23-5	Carbon tetrachloride	50	50.8	102	75-127
108-90-7	Chlorobenzene	50	48.7	97	83-115
75-00-3	Chloroethane	50	47.4	95	61-135
67-66-3	Chloroform	50	45.4	91	76-118
74-87-3	Chloromethane	50	47.7	95	46-144
95-49-8	o-Chlorotoluene	50	49.5	99	80-120
106-43-4	p-Chlorotoluene	50	49.8	100	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	54.5	109	75-135
124-48-1	Dibromochloromethane	50	51.7	103	84-128
106-93-4	1,2-Dibromoethane	50	51.8	104	82-129
95-50-1	1,2-Dichlorobenzene	50	50.7	101	85-117
541-73-1	1,3-Dichlorobenzene	50	49.9	100	83-116
106-46-7	1,4-Dichlorobenzene	50	49.7	99	82-115
75-71-8	Dichlorodifluoromethane	50	53.4	107	49-153
75-34-3	1,1-Dichloroethane	50	48.1	96	75-122
107-06-2	1,2-Dichloroethane	50	48.9	98	74-116
75-35-4	1,1-Dichloroethene	50	48.5	97	68-129
156-59-2	cis-1,2-Dichloroethene	50	48.1	96	78-120
156-60-5	trans-1,2-Dichloroethene	50	48.2	96	74-125
78-87-5	1,2-Dichloropropane	50	51.3	103	80-120
142-28-9	1,3-Dichloropropane	50	50.2	100	82-116
594-20-7	2,2-Dichloropropane	50	50.0	100	70-128
563-58-6	1,1-Dichloropropene	50	48.1	96	75-121
10061-01-5	cis-1,3-Dichloropropene	50	51.8	104	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-BS	L329430.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.9	108	84-124
100-41-4	Ethylbenzene	50	48.2	96	80-115
87-68-3	Hexachlorobutadiene	50	46.9	94	68-137
591-78-6	2-Hexanone	200	219	110	74-132
74-88-4	Iodomethane	50	37.8	76	10-200
98-82-8	Isopropylbenzene	50	49.9	100	79-120
99-87-6	p-Isopropyltoluene	50	48.8	98	80-122
1634-04-4	Methyl Tert Butyl Ether	50	49.3	99	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	217	109	77-129
74-95-3	Methylene bromide	50	48.0	96	83-121
75-09-2	Methylene chloride	50	46.8	94	74-125
91-20-3	Naphthalene	50	50.8	102	73-138
103-65-1	n-Propylbenzene	50	48.8	98	78-117
100-42-5	Styrene	50	50.1	100	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	53.1	106	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	54.1	108	78-122
127-18-4	Tetrachloroethene	50	47.9	96	75-125
108-88-3	Toluene	50	49.6	99	80-115
87-61-6	1,2,3-Trichlorobenzene	50	49.5	99	73-140
120-82-1	1,2,4-Trichlorobenzene	50	50.2	100	77-137
71-55-6	1,1,1-Trichloroethane	50	49.4	99	77-124
79-00-5	1,1,2-Trichloroethane	50	49.7	99	83-118
79-01-6	Trichloroethene	50	48.7	97	80-123
75-69-4	Trichlorofluoromethane	50	52.2	104	71-134
96-18-4	1,2,3-Trichloropropane	50	50.8	102	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.1	98	81-119
108-67-8	1,3,5-Trimethylbenzene	50	48.9	98	79-120
108-05-4	Vinyl Acetate	50	58.9	118	77-131
75-01-4	Vinyl chloride	50	50.4	101	56-138
	m,p-Xylene	100	97.8	98	81-118
95-47-6	o-Xylene	50	48.5	97	81-119
1330-20-7	Xylene (total)	150	146	97	81-118

* = Outside of Control Limits.

5.2.9
5

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-BS	L329430.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9856-BS	L329481.D	1	05/19/21	BK	n/a	n/a	VL9856

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-40, JD24770-41, JD24770-46

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethene	50	46.9	94	78-120
127-18-4	Tetrachloroethene	50	45.3	91	75-125
79-01-6	Trichloroethene	50	45.6	91	80-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

* = Outside of Control Limits.

5.2.10
5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-3MS	2E168566.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-3	2E168564.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	JD24717-3 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	89.4	45* a	52-133
71-43-2	Benzene	ND	50	47.6	95	55-129
108-86-1	Bromobenzene	ND	50	45.9	92	73-120
74-97-5	Bromochloromethane	ND	50	45.9	92	75-122
75-27-4	Bromodichloromethane	ND	50	46.3	93	74-123
75-25-2	Bromoform	ND	50	47.5	95	69-135
74-83-9	Bromomethane	ND	50	51.5	103	11-167
78-93-3	2-Butanone (MEK)	ND	200	121	61* a	64-131
104-51-8	n-Butylbenzene	ND	50	53.4	107	69-130
135-98-8	sec-Butylbenzene	ND	50	49.3	99	70-125
98-06-6	tert-Butylbenzene	ND	50	47.5	95	68-125
75-15-0	Carbon disulfide	ND	50	50.5	101	54-137
56-23-5	Carbon tetrachloride	ND	50	48.7	97	68-132
108-90-7	Chlorobenzene	ND	50	46.2	92	71-119
75-00-3	Chloroethane	ND	50	51.3	103	50-146
67-66-3	Chloroform	ND	50	43.0	86	67-120
74-87-3	Chloromethane	ND	50	49.4	99	42-146
95-49-8	o-Chlorotoluene	ND	50	47.4	95	71-120
106-43-4	p-Chlorotoluene	ND	50	44.5	89	71-117
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	37.8	76	65-130
124-48-1	Dibromochloromethane	ND	50	44.3	89	74-125
106-93-4	1,2-Dibromoethane	ND	50	38.2	76	74-125
95-50-1	1,2-Dichlorobenzene	ND	50	45.0	90	73-117
541-73-1	1,3-Dichlorobenzene	ND	50	46.1	92	73-117
106-46-7	1,4-Dichlorobenzene	ND	50	47.9	96	70-117
75-71-8	Dichlorodifluoromethane	ND	50	43.6	87	46-169
75-34-3	1,1-Dichloroethane	ND	50	47.1	94	66-124
107-06-2	1,2-Dichloroethane	ND	50	38.9	78	66-115
75-35-4	1,1-Dichloroethene	ND	50	47.4	95	60-136
156-59-2	cis-1,2-Dichloroethene	ND	50	47.0	94	55-133
156-60-5	trans-1,2-Dichloroethene	ND	50	48.0	96	67-127
78-87-5	1,2-Dichloropropane	ND	50	46.9	94	72-120
142-28-9	1,3-Dichloropropane	ND	50	40.7	81	72-115
594-20-7	2,2-Dichloropropane	ND	50	48.3	97	61-133
563-58-6	1,1-Dichloropropene	ND	50	49.2	98	68-127
10061-01-5	cis-1,3-Dichloropropene	ND	50	49.9	100	75-123

* = Outside of Control Limits.

5.3.1
5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-3MS	2E168566.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-3	2E168564.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	JD24717-3 ug/l	Spike Q	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND	50	45.6	91	73-122
100-41-4	Ethylbenzene	ND	50	46.4	93	44-136
87-68-3	Hexachlorobutadiene	ND	50	58.5	117	55-143
591-78-6	2-Hexanone	ND	200	130	65	64-129
74-88-4	Iodomethane	ND	50	44.6	89	10-200
98-82-8	Isopropylbenzene	ND	50	47.9	96	71-122
99-87-6	p-Isopropyltoluene	ND	50	51.3	103	72-124
1634-04-4	Methyl Tert Butyl Ether	3.8	50	43.3	79	64-122
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	151	76	68-128
74-95-3	Methylene bromide	ND	50	41.4	83	74-118
75-09-2	Methylene chloride	ND	50	44.0	88	65-126
91-20-3	Naphthalene	ND	50	44.1	88	58-140
103-65-1	n-Propylbenzene	ND	50	48.2	96	64-123
100-42-5	Styrene	ND	50	50.6	101	73-124
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	48.2	96	74-123
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	37.5	75	68-120
127-18-4	Tetrachloroethene	ND	50	41.6	83	61-134
108-88-3	Toluene	ND	50	46.7	93	54-130
87-61-6	1,2,3-Trichlorobenzene	ND	50	52.0	104	64-135
120-82-1	1,2,4-Trichlorobenzene	ND	50	55.6	111	67-134
71-55-6	1,1,1-Trichloroethane	ND	50	46.3	93	66-130
79-00-5	1,1,2-Trichloroethane	ND	50	42.1	84	73-117
79-01-6	Trichloroethene	ND	50	47.0	94	56-139
75-69-4	Trichlorofluoromethane	ND	50	48.6	97	63-150
96-18-4	1,2,3-Trichloropropane	ND	50	35.9	72	71-118
95-63-6	1,2,4-Trimethylbenzene	ND	50	46.4	93	45-139
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.0	94	60-128
108-05-4	Vinyl Acetate	ND	50	46.7	93	66-128
75-01-4	Vinyl chloride	ND	50	50.6	101	48-148
	m,p-Xylene	ND	100	96.7	97	42-140
95-47-6	o-Xylene	ND	50	45.4	91	54-133
1330-20-7	Xylene (total)	ND	150	142	95	46-138

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-3MS	2E168566.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-3	2E168564.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Surrogate Recoveries	MS	JD24717-3	Limits
1868-53-7	Dibromofluoromethane	99%	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	87%	91%	80-121%
2037-26-5	Toluene-D8	97%	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	93%	80-120%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.3.1
5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-2MS	2E168600.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168598.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168596.D	10	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	JD24770-2 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	111	56	52-133
71-43-2	Benzene	9.3	50	56.6	95	55-129
108-86-1	Bromobenzene	ND	50	44.6	89	73-120
74-97-5	Bromochloromethane	ND	50	47.5	95	75-122
75-27-4	Bromodichloromethane	ND	50	47.0	94	74-123
75-25-2	Bromoform	ND	50	51.3	103	69-135
74-83-9	Bromomethane	ND	50	51.3	103	11-167
78-93-3	2-Butanone (MEK)	ND	200	165	83	64-131
104-51-8	n-Butylbenzene	ND	50	50.3	101	69-130
135-98-8	sec-Butylbenzene	ND	50	46.8	94	70-125
98-06-6	tert-Butylbenzene	ND	50	45.2	90	68-125
75-15-0	Carbon disulfide	ND	50	46.0	92	54-137
56-23-5	Carbon tetrachloride	ND	50	46.3	93	68-132
108-90-7	Chlorobenzene	ND	50	46.1	92	71-119
75-00-3	Chloroethane	391 ^a	50	499	146	50-146
67-66-3	Chloroform	ND	50	43.3	87	67-120
74-87-3	Chloromethane	ND	50	47.0	94	42-146
95-49-8	o-Chlorotoluene	ND	50	45.2	90	71-120
106-43-4	p-Chlorotoluene	ND	50	42.3	85	71-117
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	44.7	89	65-130
124-48-1	Dibromochloromethane	ND	50	46.2	92	74-125
106-93-4	1,2-Dibromoethane	ND	50	41.9	84	74-125
95-50-1	1,2-Dichlorobenzene	ND	50	44.3	89	73-117
541-73-1	1,3-Dichlorobenzene	ND	50	44.0	88	73-117
106-46-7	1,4-Dichlorobenzene	ND	50	46.0	92	70-117
75-71-8	Dichlorodifluoromethane	ND	50	46.0	92	46-169
75-34-3	1,1-Dichloroethane	73.4	50	123	99	66-124
107-06-2	1,2-Dichloroethane	1.1	50	43.0	84	66-115
75-35-4	1,1-Dichloroethene	4.7	50	46.6	84	60-136
156-59-2	cis-1,2-Dichloroethene	100	50	154	108	55-133
156-60-5	trans-1,2-Dichloroethene	ND	50	47.8	96	67-127
78-87-5	1,2-Dichloropropane	ND	50	47.4	95	72-120
142-28-9	1,3-Dichloropropane	ND	50	43.6	87	72-115
594-20-7	2,2-Dichloropropane	ND	50	46.1	92	61-133
563-58-6	1,1-Dichloropropene	ND	50	47.9	96	68-127
10061-01-5	cis-1,3-Dichloropropene	ND	50	50.6	101	75-123

* = Outside of Control Limits.

5.3.2
5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-2MS	2E168600.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168598.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168596.D	10	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	JD24770-2 ug/l	Spike Q	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND	50	47.5	95	73-122
100-41-4	Ethylbenzene	1.7	50	47.1	91	44-136
87-68-3	Hexachlorobutadiene	ND	50	56.1	112	55-143
591-78-6	2-Hexanone	ND	200	162	81	64-129
74-88-4	Iodomethane	ND	50	41.9	84	10-200
98-82-8	Isopropylbenzene	ND	50	46.3	93	71-122
99-87-6	p-Isopropyltoluene	ND	50	48.8	98	72-124
1634-04-4	Methyl Tert Butyl Ether	ND	50	43.6	87	64-122
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	183	92	68-128
74-95-3	Methylene bromide	ND	50	45.0	90	74-118
75-09-2	Methylene chloride	3.1	50	47.1	88	65-126
91-20-3	Naphthalene	ND	50	48.3	97	58-140
103-65-1	n-Propylbenzene	ND	50	45.8	92	64-123
100-42-5	Styrene	ND	50	49.8	100	73-124
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	48.0	96	74-123
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	41.8	84	68-120
127-18-4	Tetrachloroethene	ND	50	40.3	81	61-134
108-88-3	Toluene	5.1	50	51.9	94	54-130
87-61-6	1,2,3-Trichlorobenzene	ND	50	52.3	105	64-135
120-82-1	1,2,4-Trichlorobenzene	ND	50	54.4	109	67-134
71-55-6	1,1,1-Trichloroethane	ND	50	44.6	89	66-130
79-00-5	1,1,2-Trichloroethane	ND	50	45.7	91	73-117
79-01-6	Trichloroethene	ND	50	46.2	92	56-139
75-69-4	Trichlorofluoromethane	ND	50	48.2	96	63-150
96-18-4	1,2,3-Trichloropropane	ND	50	41.1	82	71-118
95-63-6	1,2,4-Trimethylbenzene	ND	50	44.6	89	45-139
108-67-8	1,3,5-Trimethylbenzene	ND	50	44.9	90	60-128
108-05-4	Vinyl Acetate	ND	50	53.0	106	66-128
75-01-4	Vinyl chloride	107	50	166	118	48-148
	m,p-Xylene	3.7	100	98.2	95	42-140
95-47-6	o-Xylene	2.2	50	46.9	89	54-133
1330-20-7	Xylene (total)	5.9	150	145	93	46-138

* = Outside of Control Limits.

5.3.2
5

Matrix Spike Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-2MS	2E168600.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168598.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168596.D	10	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Surrogate Recoveries	MS	JD24770-2	JD24770-2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	96%	95%	80-121%
2037-26-5	Toluene-D8	97%	96%	96%	80-120%
460-00-4	4-Bromofluorobenzene	89%	90%	90%	80-120%

(a) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-33MS	L329331.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33MSD	L329332.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33 ^a	L329328.D	5	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	JD24770-33 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	1000	862	86	1000	883	88	2	52-133/18
71-43-2	Benzene	ND	250	248	99	250	258	103	4	55-129/11
108-86-1	Bromobenzene	ND	250	266	106	250	269	108	1	73-120/11
74-97-5	Bromochloromethane	ND	250	258	103	250	267	107	3	75-122/10
75-27-4	Bromodichloromethane	ND	250	271	108	250	279	112	3	74-123/11
75-25-2	Bromoform	ND	250	288	115	250	292	117	1	69-135/12
74-83-9	Bromomethane	ND	250	239	96	250	277	111	15	11-167/43
78-93-3	2-Butanone (MEK)	ND	1000	1070	107	1000	1110	111	4	64-131/15
104-51-8	n-Butylbenzene	ND	250	271	108	250	273	109	1	69-130/11
135-98-8	sec-Butylbenzene	ND	250	257	103	250	260	104	1	70-125/12
98-06-6	tert-Butylbenzene	ND	250	260	104	250	267	107	3	68-125/12
75-15-0	Carbon disulfide	ND	250	240	96	250	245	98	2	54-137/15
56-23-5	Carbon tetrachloride	ND	250	264	106	250	279	112	6	68-132/11
108-90-7	Chlorobenzene	ND	250	256	102	250	264	106	3	71-119/10
75-00-3	Chloroethane	ND	250	232	93	250	233	93	0	50-146/18
67-66-3	Chloroform	ND	250	240	96	250	247	99	3	67-120/11
74-87-3	Chloromethane	ND	250	236	94	250	238	95	1	42-146/17
95-49-8	o-Chlorotoluene	ND	250	261	104	250	274	110	5	71-120/12
106-43-4	p-Chlorotoluene	ND	250	267	107	250	269	108	1	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	298	119	250	316	126	6	65-130/15
124-48-1	Dibromochloromethane	ND	250	269	108	250	278	111	3	74-125/10
106-93-4	1,2-Dibromoethane	ND	250	273	109	250	276	110	1	74-125/9
95-50-1	1,2-Dichlorobenzene	ND	250	276	110	250	279	112	1	73-117/10
541-73-1	1,3-Dichlorobenzene	ND	250	269	108	250	277	111	3	73-117/10
106-46-7	1,4-Dichlorobenzene	ND	250	266	106	250	277	111	4	70-117/10
75-71-8	Dichlorodifluoromethane	ND	250	251	100	250	257	103	2	46-169/17
75-34-3	1,1-Dichloroethane	ND	250	252	101	250	257	103	2	66-124/13
107-06-2	1,2-Dichloroethane	ND	250	254	102	250	261	104	3	66-115/10
75-35-4	1,1-Dichloroethene	ND	250	263	105	250	266	106	1	60-136/15
156-59-2	cis-1,2-Dichloroethene	96.6	250	337	96	250	351	102	4	55-133/12
156-60-5	trans-1,2-Dichloroethene	3.8	250	263	104	250	269	106	2	67-127/13
78-87-5	1,2-Dichloropropane	ND	250	262	105	250	275	110	5	72-120/11
142-28-9	1,3-Dichloropropane	ND	250	262	105	250	267	107	2	72-115/10
594-20-7	2,2-Dichloropropane	ND	250	265	106	250	274	110	3	61-133/12
563-58-6	1,1-Dichloropropene	ND	250	251	100	250	257	103	2	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND	250	280	112	250	291	116	4	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-33MS	L329331.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33MSD	L329332.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33 ^a	L329328.D	5	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Compound	JD24770-33 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	250	280	112	250	293	117	5	73-122/11
100-41-4	Ethylbenzene	ND	250	249	100	250	252	101	1	44-136/10
87-68-3	Hexachlorobutadiene	ND	250	259	104	250	273	109	5	55-143/15
591-78-6	2-Hexanone	ND	1000	1080	108	1000	1100	110	2	64-129/13
74-88-4	Iodomethane	ND	250	172	69	250	222	89	25	10-200/61
98-82-8	Isopropylbenzene	ND	250	255	102	250	258	103	1	71-122/11
99-87-6	p-Isopropyltoluene	ND	250	258	103	250	264	106	2	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND	250	275	110	250	278	111	1	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	1000	1140	114	1000	1160	116	2	68-128/13
74-95-3	Methylene bromide	ND	250	255	102	250	266	106	4	74-118/10
75-09-2	Methylene chloride	ND	250	252	101	250	255	102	1	65-126/13
91-20-3	Naphthalene	ND	250	300	120	250	289	116	4	58-140/16
103-65-1	n-Propylbenzene	ND	250	258	103	250	262	105	2	64-123/11
100-42-5	Styrene	ND	250	262	105	250	268	107	2	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	274	110	250	284	114	4	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	297	119	250	302	121* b	2	68-120/15
127-18-4	Tetrachloroethene	55.4	250	287	93	250	298	97	4	61-134/11
108-88-3	Toluene	ND	250	257	103	250	263	105	2	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND	250	271	108	250	279	112	3	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND	250	282	113	250	290	116	3	67-134/14
71-55-6	1,1,1-Trichloroethane	ND	250	265	106	250	269	108	1	66-130/12
79-00-5	1,1,2-Trichloroethane	ND	250	264	106	250	270	108	2	73-117/11
79-01-6	Trichloroethene	35.6	250	276	96	250	287	101	4	56-139/11
75-69-4	Trichlorofluoromethane	ND	250	253	101	250	263	105	4	63-150/16
96-18-4	1,2,3-Trichloropropane	ND	250	274	110	250	277	111	1	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND	250	270	108	250	270	108	0	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND	250	264	106	250	266	106	1	60-128/12
108-05-4	Vinyl Acetate	ND	250	354	142* b	250	359	144* b	1	66-128/15
75-01-4	Vinyl chloride	ND	250	245	98	250	252	101	3	48-148/17
	m,p-Xylene	ND	500	496	99	500	513	103	3	42-140/10
95-47-6	o-Xylene	ND	250	257	103	250	262	105	2	54-133/11
1330-20-7	Xylene (total)	ND	750	753	100	750	774	103	3	46-138/10

* = Outside of Control Limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-33MS	L329331.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33MSD	L329332.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33 ^a	L329328.D	5	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24, JD24770-25, JD24770-26, JD24770-27, JD24770-28, JD24770-30, JD24770-31, JD24770-32, JD24770-34, JD24770-35, JD24770-36, JD24770-38, JD24770-39

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-33	Limits
1868-53-7	Dibromofluoromethane	100%	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	98%	100%		80-121%
2037-26-5	Toluene-D8	95%	96%		80-120%
460-00-4	4-Bromofluorobenzene	102%	101%		80-120%

- (a) Sample used for QC purposes only.
- (b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-40MS	L329354.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40MSD	L329355.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40 ^a	L329353.D	20	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	JD24770-40		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
67-64-1	Acetone	ND		4000	80	4000	3150	79	1	52-133/18
71-43-2	Benzene	ND		1000	94	1000	938	94	0	55-129/11
108-86-1	Bromobenzene	ND		1000	95	1000	983	98	3	73-120/11
74-97-5	Bromochloromethane	ND		1000	97	1000	973	97	1	75-122/10
75-27-4	Bromodichloromethane	ND		1000	101	1000	1010	101	0	74-123/11
75-25-2	Bromoform	ND		1000	108	1000	1080	108	0	69-135/12
74-83-9	Bromomethane	ND		1000	104	1000	1090	109	5	11-167/43
78-93-3	2-Butanone (MEK)	ND		4000	103	4000	4040	101	2	64-131/15
104-51-8	n-Butylbenzene	ND		1000	94	1000	958	96	1	69-130/11
135-98-8	sec-Butylbenzene	ND		1000	93	1000	946	95	1	70-125/12
98-06-6	tert-Butylbenzene	ND		1000	96	1000	978	98	2	68-125/12
75-15-0	Carbon disulfide	ND		1000	81	1000	831	83	3	54-137/15
56-23-5	Carbon tetrachloride	ND		1000	100	1000	1050	105	5	68-132/11
108-90-7	Chlorobenzene	ND		1000	97	1000	943	94	2	71-119/10
75-00-3	Chloroethane	ND		1000	88	1000	886	89	1	50-146/18
67-66-3	Chloroform	56.8		1000	88	1000	943	89	1	67-120/11
74-87-3	Chloromethane	ND		1000	84	1000	816	82	2	42-146/17
95-49-8	o-Chlorotoluene	ND		1000	96	1000	994	99	3	71-120/12
106-43-4	p-Chlorotoluene	ND		1000	96	1000	991	99	3	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		1000	108	1000	1070	107	1	65-130/15
124-48-1	Dibromochloromethane	ND		1000	100	1000	1000	100	0	74-125/10
106-93-4	1,2-Dibromoethane	ND		1000	100	1000	979	98	2	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		1000	101	1000	1030	103	2	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		1000	98	1000	992	99	1	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		1000	99	1000	989	99	0	70-117/10
75-71-8	Dichlorodifluoromethane	ND		1000	82	1000	839	84	2	46-169/17
75-34-3	1,1-Dichloroethane	14.9		1000	95	1000	948	93	2	66-124/13
107-06-2	1,2-Dichloroethane	ND		1000	95	1000	962	96	1	66-115/10
75-35-4	1,1-Dichloroethene	40.9		1000	92	1000	982	94	2	60-136/15
156-59-2	cis-1,2-Dichloroethene	4470	E	1000	39* ^b	1000	4920	45* ^b	1	55-133/12
156-60-5	trans-1,2-Dichloroethene	63.7		1000	95	1000	1020	96	1	67-127/13
78-87-5	1,2-Dichloropropane	ND		1000	97	1000	962	96	0	72-120/11
142-28-9	1,3-Dichloropropane	ND		1000	89	1000	845	85	5	72-115/10
594-20-7	2,2-Dichloropropane	ND		1000	84	1000	849	85	1	61-133/12
563-58-6	1,1-Dichloropropene	ND		1000	92	1000	937	94	2	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		1000	102	1000	1030	103	1	75-123/12

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-40MS	L329354.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40MSD	L329355.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40 ^a	L329353.D	20	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Compound	JD24770-40 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		1000	1040	104	1000	1020	102	2	73-122/11
100-41-4	Ethylbenzene	ND		1000	938	94	1000	918	92	2	44-136/10
87-68-3	Hexachlorobutadiene	ND		1000	878	88	1000	885	89	1	55-143/15
591-78-6	2-Hexanone	ND		4000	3680	92	4000	3510	88	5	64-129/13
74-88-4	Iodomethane	ND		1000	757	76	1000	801	80	6	10-200/61
98-82-8	Isopropylbenzene	ND		1000	972	97	1000	956	96	2	71-122/11
99-87-6	p-Isopropyltoluene	ND		1000	937	94	1000	957	96	2	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND		1000	995	100	1000	1000	100	1	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		4000	4260	107	4000	4180	105	2	68-128/13
74-95-3	Methylene bromide	ND		1000	938	94	1000	935	94	0	74-118/10
75-09-2	Methylene chloride	ND		1000	922	92	1000	924	92	0	65-126/13
91-20-3	Naphthalene	ND		1000	999	100	1000	1010	101	1	58-140/16
103-65-1	n-Propylbenzene	ND		1000	944	94	1000	968	97	3	64-123/11
100-42-5	Styrene	ND		1000	989	99	1000	979	98	1	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		1000	1050	105	1000	1030	103	2	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	1090	109	1000	1120	112	3	68-120/15
127-18-4	Tetrachloroethene	12200	E	1000	11500	-70* ^b	1000	11400	-80* ^b	1	61-134/11
108-88-3	Toluene	ND		1000	973	97	1000	960	96	1	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND		1000	921	92	1000	933	93	1	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND		1000	937	94	1000	990	99	6	67-134/14
71-55-6	1,1,1-Trichloroethane	199		1000	1190	99	1000	1190	99	0	66-130/12
79-00-5	1,1,2-Trichloroethane	ND		1000	1010	101	1000	969	97	4	73-117/11
79-01-6	Trichloroethene	5100	E	1000	5740	64	1000	5800	70	1	56-139/11
75-69-4	Trichlorofluoromethane	ND		1000	1000	100	1000	995	100	1	63-150/16
96-18-4	1,2,3-Trichloropropane	ND		1000	1010	101	1000	1010	101	0	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND		1000	961	96	1000	976	98	2	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND		1000	952	95	1000	985	99	3	60-128/12
108-05-4	Vinyl Acetate	ND		1000	1330	133* ^c	1000	1320	132* ^c	1	66-128/15
75-01-4	Vinyl chloride	ND		1000	900	90	1000	908	91	1	48-148/17
	m,p-Xylene	ND		2000	1880	94	2000	1840	92	2	42-140/10
95-47-6	o-Xylene	ND		1000	966	97	1000	948	95	2	54-133/11
1330-20-7	Xylene (total)	ND		3000	2850	95	3000	2790	93	2	46-138/10

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-40MS	L329354.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40MSD	L329355.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40 ^a	L329353.D	20	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37, JD24770-40, JD24770-41, JD24770-42, JD24770-43

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-40	Limits
1868-53-7	Dibromofluoromethane	100%	102%	97%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	101%	101%	80-121%
2037-26-5	Toluene-D8	97%	95%	110%	80-120%
460-00-4	4-Bromofluorobenzene	99%	101%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-15MS	2E168634.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15MSD	2E168635.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15 ^a	2E168633.D	50	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	JD24770-15		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
		ug/l	Q								
67-64-1	Acetone	ND		10000	8480	85	10000	8640	86	2	52-133/18
71-43-2	Benzene	ND		2500	2580	103	2500	2590	104	0	55-129/11
108-86-1	Bromobenzene	ND		2500	2400	96	2500	2450	98	2	73-120/11
74-97-5	Bromochloromethane	ND		2500	2700	108	2500	2670	107	1	75-122/10
75-27-4	Bromodichloromethane	ND		2500	2710	108	2500	2720	109	0	74-123/11
75-25-2	Bromoform	ND		2500	3020	121	2500	2990	120	1	69-135/12
74-83-9	Bromomethane	ND		2500	2710	108	2500	2750	110	1	11-167/43
78-93-3	2-Butanone (MEK)	ND		10000	10600	106	10000	10700	107	1	64-131/15
104-51-8	n-Butylbenzene	ND		2500	2850	114	2500	2880	115	1	69-130/11
135-98-8	sec-Butylbenzene	ND		2500	2570	103	2500	2600	104	1	70-125/12
98-06-6	tert-Butylbenzene	ND		2500	2430	97	2500	2460	98	1	68-125/12
75-15-0	Carbon disulfide	ND		2500	2680	107	2500	2680	107	0	54-137/15
56-23-5	Carbon tetrachloride	ND		2500	2640	106	2500	2640	106	0	68-132/11
108-90-7	Chlorobenzene	ND		2500	2480	99	2500	2510	100	1	71-119/10
75-00-3	Chloroethane	119		2500	2840	109	2500	2860	110	1	50-146/18
67-66-3	Chloroform	ND		2500	2500	100	2500	2530	101	1	67-120/11
74-87-3	Chloromethane	ND		2500	2770	111	2500	2790	112	1	42-146/17
95-49-8	o-Chlorotoluene	ND		2500	2490	100	2500	2530	101	2	71-120/12
106-43-4	p-Chlorotoluene	ND		2500	2400	96	2500	2460	98	2	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2620	105	2500	2690	108	3	65-130/15
124-48-1	Dibromochloromethane	ND		2500	2630	105	2500	2660	106	1	74-125/10
106-93-4	1,2-Dibromoethane	ND		2500	2390	96	2500	2410	96	1	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		2500	2470	99	2500	2490	100	1	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		2500	2440	98	2500	2470	99	1	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		2500	2600	104	2500	2610	104	0	70-117/10
75-71-8	Dichlorodifluoromethane	ND		2500	2360	94	2500	2370	95	0	46-169/17
75-34-3	1,1-Dichloroethane	4880		2500	7100	89	2500	7010	85	1	66-124/13
107-06-2	1,2-Dichloroethane	ND		2500	2540	102	2500	2560	102	1	66-115/10
75-35-4	1,1-Dichloroethene	1260		2500	3580	93	2500	3570	92	0	60-136/15
156-59-2	cis-1,2-Dichloroethene	ND		2500	2650	106	2500	2640	106	0	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND		2500	2800	112	2500	2780	111	1	67-127/13
78-87-5	1,2-Dichloropropane	ND		2500	2750	110	2500	2730	109	1	72-120/11
142-28-9	1,3-Dichloropropane	ND		2500	2620	105	2500	2610	104	0	72-115/10
594-20-7	2,2-Dichloropropane	ND		2500	2730	109	2500	2700	108	1	61-133/12
563-58-6	1,1-Dichloropropene	ND		2500	2750	110	2500	2760	110	0	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		2500	2950	118	2500	2940	118	0	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-15MS	2E168634.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15MSD	2E168635.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15 ^a	2E168633.D	50	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Compound	JD24770-15 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		2500	2820	113	2500	2830	113	0	73-122/11
100-41-4	Ethylbenzene	ND		2500	2520	101	2500	2530	101	0	44-136/10
87-68-3	Hexachlorobutadiene	ND		2500	2660	106	2500	2750	110	3	55-143/15
591-78-6	2-Hexanone	ND		10000	10700	107	10000	10900	109	2	64-129/13
74-88-4	Iodomethane	ND		2500	2280	91	2500	2300	92	1	10-200/61
98-82-8	Isopropylbenzene	ND		2500	2570	103	2500	2560	102	0	71-122/11
99-87-6	p-Isopropyltoluene	ND		2500	2650	106	2500	2680	107	1	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND		2500	2700	108	2500	2710	108	0	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		10000	12000	120	10000	11900	119	1	68-128/13
74-95-3	Methylene bromide	ND		2500	2600	104	2500	2620	105	1	74-118/10
75-09-2	Methylene chloride	ND		2500	2490	100	2500	2490	100	0	65-126/13
91-20-3	Naphthalene	ND		2500	2730	109	2500	2820	113	3	58-140/16
103-65-1	n-Propylbenzene	ND		2500	2560	102	2500	2590	104	1	64-123/11
100-42-5	Styrene	ND		2500	2790	112	2500	2830	113	1	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		2500	2630	105	2500	2630	105	0	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2550	102	2500	2590	104	2	68-120/15
127-18-4	Tetrachloroethene	ND		2500	2080	83	2500	2090	84	0	61-134/11
108-88-3	Toluene	ND		2500	2480	99	2500	2500	100	1	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND		2500	2830	113	2500	2930	117	3	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2890	116	2500	3000	120	4	67-134/14
71-55-6	1,1,1-Trichloroethane	16600	E	2500	16700	4* ^b	2500	16300	-12* ^b	2	66-130/12
79-00-5	1,1,2-Trichloroethane	ND		2500	2660	106	2500	2690	108	1	73-117/11
79-01-6	Trichloroethene	ND		2500	2460	98	2500	2490	100	1	56-139/11
75-69-4	Trichlorofluoromethane	ND		2500	2460	98	2500	2460	98	0	63-150/16
96-18-4	1,2,3-Trichloropropane	ND		2500	2420	97	2500	2470	99	2	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND		2500	2520	101	2500	2540	102	1	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND		2500	2500	100	2500	2530	101	1	60-128/12
108-05-4	Vinyl Acetate	ND		2500	3240	130* ^c	2500	3240	130* ^c	0	66-128/15
75-01-4	Vinyl chloride	ND		2500	2700	108	2500	2730	109	1	48-148/17
	m,p-Xylene	ND		5000	5200	104	5000	5210	104	0	42-140/10
95-47-6	o-Xylene	ND		2500	2510	100	2500	2520	101	0	54-133/11
1330-20-7	Xylene (total)	ND		7500	7700	103	7500	7730	103	0	46-138/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-15MS	2E168634.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15MSD	2E168635.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15 ^a	2E168633.D	50	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18, JD24770-19, JD24770-20, JD24770-21, JD24770-22, JD24770-23

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-15	Limits
1868-53-7	Dibromofluoromethane	107%	107%	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	106%	80-121%
2037-26-5	Toluene-D8	98%	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	92%	93%	95%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24924-1MS	L329390.D	5	05/17/21	BK	n/a	n/a	VL9852
JD24924-1MSD	L329391.D	5	05/17/21	BK	n/a	n/a	VL9852
JD24924-1 ^a	L329385.D	5	05/17/21	BK	n/a	n/a	VL9852
JD24924-1	L329387.D	50	05/17/21	BK	n/a	n/a	VL9852

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-32

CAS No.	Compound	JD24924-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethene	128	250	301	69	250	310	73	3	61-134/11

CAS No.	Surrogate Recoveries	MS	MSD	JD24924-1	JD24924-1	Limits
1868-53-7	Dibromofluoromethane	103%	100%	100%	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	113%	109%	80-121%
2037-26-5	Toluene-D8	98%	98%	106%	105%	80-120%
460-00-4	4-Bromofluorobenzene	101%	103%	97%	97%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.4.4
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24655-6MS	A264289.D	5	05/18/21	KC	n/a	n/a	VA10347
JD24655-6MSD	A264290.D	5	05/18/21	KC	n/a	n/a	VA10347
JD24655-6 ^a	A264287.D	5	05/18/21	KC	n/a	n/a	VA10347

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15, JD24770-18

CAS No.	Compound	JD24655-6		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
67-64-1	Acetone	18.0	J	1000	693	68	1000	717	70	3	52-133/18
127-18-4	Tetrachloroethene	ND		250	210	84	250	223	89	6	61-134/11
71-55-6	1,1,1-Trichloroethane	ND		250	213	85	250	219	88	3	66-130/12

CAS No.	Surrogate Recoveries	MS	MSD	JD24655-6	Limits
1868-53-7	Dibromofluoromethane	101%	100%	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	85%	84%	89%	80-121%
2037-26-5	Toluene-D8	96%	99%	96%	80-120%
460-00-4	4-Bromofluorobenzene	102%	103%	100%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.4.5
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24981-1MS	L329441.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1MSD	L329442.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1	L329433.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	JD24981-1		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
		ug/l	Q								
67-64-1	Acetone	ND		200	141	71	200	151	76	7	52-133/18
71-43-2	Benzene	ND		50	44.0	88	50	50.3	101	13* a	55-129/11
108-86-1	Bromobenzene	ND		50	42.2	84	50	48.2	96	13* a	73-120/11
74-97-5	Bromochloromethane	ND		50	45.0	90	50	49.7	99	10	75-122/10
75-27-4	Bromodichloromethane	ND		50	46.2	92	50	52.6	105	13* a	74-123/11
75-25-2	Bromoform	ND		50	46.2	92	50	51.5	103	11	69-135/12
74-83-9	Bromomethane	ND		50	50.0	100	50	57.7	115	14	11-167/43
78-93-3	2-Butanone (MEK)	ND		200	178	89	200	190	95	7	64-131/15
104-51-8	n-Butylbenzene	ND		50	44.2	88	50	51.9	104	16* a	69-130/11
135-98-8	sec-Butylbenzene	ND		50	42.7	85	50	49.8	100	15* a	70-125/12
98-06-6	tert-Butylbenzene	ND		50	43.2	86	50	50.3	101	15* a	68-125/12
75-15-0	Carbon disulfide	ND		50	41.7	83	50	47.6	95	13	54-137/15
56-23-5	Carbon tetrachloride	ND		50	46.6	93	50	54.4	109	15* a	68-132/11
108-90-7	Chlorobenzene	0.75	J	50	43.9	86	50	49.7	98	12* a	71-119/10
75-00-3	Chloroethane	ND		50	47.8	96	50	50.1	100	5	50-146/18
67-66-3	Chloroform	ND		50	41.7	83	50	47.0	94	12* a	67-120/11
74-87-3	Chloromethane	ND		50	46.9	94	50	48.7	97	4	42-146/17
95-49-8	o-Chlorotoluene	ND		50	43.6	87	50	49.5	99	13* a	71-120/12
106-43-4	p-Chlorotoluene	ND		50	42.9	86	50	50.0	100	15* a	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.0	90	50	49.7	99	10	65-130/15
124-48-1	Dibromochloromethane	ND		50	45.7	91	50	49.6	99	8	74-125/10
106-93-4	1,2-Dibromoethane	ND		50	45.7	91	50	49.6	99	8	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		50	43.2	86	50	50.2	100	15* a	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		50	43.5	87	50	49.8	100	14* a	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		50	43.7	87	50	49.7	99	13* a	70-117/10
75-71-8	Dichlorodifluoromethane	ND		50	53.2	106	50	55.4	111	4	46-169/17
75-34-3	1,1-Dichloroethane	3.1		50	47.5	89	50	53.2	100	11	66-124/13
107-06-2	1,2-Dichloroethane	ND		50	44.0	88	50	49.2	98	11* a	66-115/10
75-35-4	1,1-Dichloroethene	ND		50	45.9	92	50	52.4	105	13	60-136/15
156-59-2	cis-1,2-Dichloroethene	25.9		50	67.0	82	50	73.8	96	10	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND		50	44.6	89	50	51.5	103	14* a	67-127/13
78-87-5	1,2-Dichloropropane	ND		50	45.1	90	50	52.1	104	14* a	72-120/11
142-28-9	1,3-Dichloropropane	ND		50	43.6	87	50	49.0	98	12* a	72-115/10
594-20-7	2,2-Dichloropropane	ND		50	44.6	89	50	51.9	104	15* a	61-133/12
563-58-6	1,1-Dichloropropene	ND		50	44.2	88	50	51.1	102	14* a	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.0	96	50	54.1	108	12	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24981-1MS	L329441.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1MSD	L329442.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1	L329433.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Compound	JD24981-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	50	45.7	91	50	52.6	105	14* a	73-122/11
100-41-4	Ethylbenzene	ND	50	41.8	84	50	47.4	95	13* a	44-136/10
87-68-3	Hexachlorobutadiene	ND	50	42.1	84	50	50.5	101	18* a	55-143/15
591-78-6	2-Hexanone	ND	200	179	90	200	188	94	5	64-129/13
74-88-4	Iodomethane	ND	50	35.6	71	50	43.5	87	20	10-200/61
98-82-8	Isopropylbenzene	ND	50	43.3	87	50	49.5	99	13* a	71-122/11
99-87-6	p-Isopropyltoluene	ND	50	43.1	86	50	49.5	99	14* a	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND	50	45.5	91	50	50.6	101	11	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	196	98	200	209	105	6	68-128/13
74-95-3	Methylene bromide	ND	50	43.2	86	50	48.6	97	12* a	74-118/10
75-09-2	Methylene chloride	ND	50	43.1	86	50	48.6	97	12	65-126/13
91-20-3	Naphthalene	ND	50	42.5	85	50	49.0	98	14	58-140/16
103-65-1	n-Propylbenzene	ND	50	42.6	85	50	49.4	99	15* a	64-123/11
100-42-5	Styrene	ND	50	43.8	88	50	50.0	100	13* a	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	45.9	92	50	51.5	103	11	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	47.6	95	50	52.3	105	9	68-120/15
127-18-4	Tetrachloroethene	ND	50	42.5	85	50	48.2	96	13* a	61-134/11
108-88-3	Toluene	ND	50	44.0	88	50	49.1	98	11	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND	50	40.8	82	50	48.7	97	18* a	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND	50	43.0	86	50	50.6	101	16* a	67-134/14
71-55-6	1,1,1-Trichloroethane	ND	50	46.9	94	50	53.3	107	13* a	66-130/12
79-00-5	1,1,2-Trichloroethane	ND	50	44.6	89	50	48.4	97	8	73-117/11
79-01-6	Trichloroethene	9.2	50	52.2	86	50	59.0	100	12* a	56-139/11
75-69-4	Trichlorofluoromethane	ND	50	53.6	107	50	55.7	111	4	63-150/16
96-18-4	1,2,3-Trichloropropane	ND	50	43.6	87	50	49.0	98	12	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND	50	42.8	86	50	48.9	98	13* a	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND	50	42.6	85	50	50.3	101	17* a	60-128/12
108-05-4	Vinyl Acetate	ND	50	55.2	110	50	62.7	125	13	66-128/15
75-01-4	Vinyl chloride	3.3	50	55.2	104	50	57.2	108	4	48-148/17
	m,p-Xylene	ND	100	85.2	85	100	96.8	97	13* a	42-140/10
95-47-6	o-Xylene	ND	50	42.7	85	50	48.2	96	12* a	54-133/11
1330-20-7	Xylene (total)	ND	150	128	85	150	145	97	12* a	46-138/10

* = Outside of Control Limits.

5.4.6
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24981-1MS	L329441.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1MSD	L329442.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1	L329433.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29, JD24770-31, JD24770-33, JD24770-34, JD24770-38, JD24770-39, JD24770-44, JD24770-45, JD24770-46

CAS No.	Surrogate Recoveries	MS	MSD	JD24981-1	Limits
1868-53-7	Dibromofluoromethane	102%	102%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	103%	80-121%
2037-26-5	Toluene-D8	96%	94%	105%	80-120%
460-00-4	4-Bromofluorobenzene	99%	102%	100%	80-120%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

5.4.6
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24665-5MS	X190922.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5MSD	X190923.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5	X190911.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	JD24665-5 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	200	180	90	200	185	93	3	52-133/18
71-43-2	Benzene	ND	50	52.6	105	50	52.6	105	0	55-129/11
108-86-1	Bromobenzene	ND	50	49.1	98	50	51.6	103	5	73-120/11
74-97-5	Bromochloromethane	ND	50	56.2	112	50	55.5	111	1	75-122/10
75-27-4	Bromodichloromethane	ND	50	52.8	106	50	54.1	108	2	74-123/11
75-25-2	Bromoform	ND	50	51.1	102	50	51.7	103	1	69-135/12
74-83-9	Bromomethane	ND	50	63.1	126	50	54.5	109	15	11-167/43
78-93-3	2-Butanone (MEK)	ND	200	218	109	200	217	109	0	64-131/15
104-51-8	n-Butylbenzene	ND	50	52.8	106	50	54.7	109	4	69-130/11
135-98-8	sec-Butylbenzene	ND	50	52.9	106	50	54.5	109	3	70-125/12
98-06-6	tert-Butylbenzene	ND	50	48.7	97	50	50.5	101	4	68-125/12
75-15-0	Carbon disulfide	ND	50	60.4	121	50	58.6	117	3	54-137/15
56-23-5	Carbon tetrachloride	ND	50	55.1	110	50	54.5	109	1	68-132/11
108-90-7	Chlorobenzene	ND	50	52.5	105	50	53.3	107	2	71-119/10
75-00-3	Chloroethane	4.3	50	71.9	135	50	63.1	118	13	50-146/18
67-66-3	Chloroform	ND	50	55.1	110	50	54.1	108	2	67-120/11
74-87-3	Chloromethane	ND	50	67.7	135	50	61.7	123	9	42-146/17
95-49-8	o-Chlorotoluene	ND	50	47.4	95	50	49.7	99	5	71-120/12
106-43-4	p-Chlorotoluene	ND	50	46.3	93	50	48.4	97	4	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	47.1	94	50	48.0	96	2	65-130/15
124-48-1	Dibromochloromethane	ND	50	51.9	104	50	52.1	104	0	74-125/10
106-93-4	1,2-Dibromoethane	ND	50	56.1	112	50	54.7	109	3	74-125/9
95-50-1	1,2-Dichlorobenzene	ND	50	49.6	99	50	51.2	102	3	73-117/10
541-73-1	1,3-Dichlorobenzene	ND	50	49.8	100	50	51.0	102	2	73-117/10
106-46-7	1,4-Dichlorobenzene	ND	50	50.0	100	50	51.7	103	3	70-117/10
75-71-8	Dichlorodifluoromethane	ND	50	52.9	106	50	47.9	96	10	46-169/17
75-34-3	1,1-Dichloroethane	37.9	50	102	128* a	50	101	126* a	1	66-124/13
107-06-2	1,2-Dichloroethane	ND	50	48.7	97	50	51.3	103	5	66-115/10
75-35-4	1,1-Dichloroethene	ND	50	57.4	115	50	56.7	113	1	60-136/15
156-59-2	cis-1,2-Dichloroethene	116	50	183	134* b	50	180	128	2	55-133/12
156-60-5	trans-1,2-Dichloroethene	3.2	50	59.4	112	50	59.8	113	1	67-127/13
78-87-5	1,2-Dichloropropane	ND	50	52.0	104	50	53.4	107	3	72-120/11
142-28-9	1,3-Dichloropropane	ND	50	54.4	109	50	54.6	109	0	72-115/10
594-20-7	2,2-Dichloropropane	ND	50	54.3	109	50	54.2	108	0	61-133/12
563-58-6	1,1-Dichloropropene	ND	50	56.0	112	50	56.6	113	1	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND	50	51.8	104	50	53.5	107	3	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24665-5MS	X190922.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5MSD	X190923.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5	X190911.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Compound	JD24665-5 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	50	51.5	103	50	53.1	106	3	73-122/11
100-41-4	Ethylbenzene	ND	50	53.1	106	50	54.0	108	2	44-136/10
87-68-3	Hexachlorobutadiene	ND	50	48.9	98	50	50.6	101	3	55-143/15
591-78-6	2-Hexanone	ND	200	214	107	200	219	110	2	64-129/13
74-88-4	Iodomethane	ND	50	54.7	109	50	52.9	106	3	10-200/61
98-82-8	Isopropylbenzene	ND	50	53.7	107	50	54.4	109	1	71-122/11
99-87-6	p-Isopropyltoluene	ND	50	50.9	102	50	53.8	108	6	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND	50	48.9	98	50	49.6	99	1	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	224	112	200	230	115	3	68-128/13
74-95-3	Methylene bromide	ND	50	55.2	110	50	55.1	110	0	74-118/10
75-09-2	Methylene chloride	ND	50	59.2	118	50	57.1	114	4	65-126/13
91-20-3	Naphthalene	ND	50	51.0	102	50	51.3	103	1	58-140/16
103-65-1	n-Propylbenzene	ND	50	49.4	99	50	51.8	104	5	64-123/11
100-42-5	Styrene	ND	50	53.6	107	50	54.7	109	2	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	50.3	101	50	50.7	101	1	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	49.9	100	50	51.8	104	4	68-120/15
127-18-4	Tetrachloroethene	ND	50	53.0	106	50	54.6	109	3	61-134/11
108-88-3	Toluene	ND	50	52.9	106	50	54.4	109	3	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND	50	50.7	101	50	52.1	104	3	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND	50	50.5	101	50	51.3	103	2	67-134/14
71-55-6	1,1,1-Trichloroethane	58.2	50	117	118	50	114	112	3	66-130/12
79-00-5	1,1,2-Trichloroethane	ND	50	55.0	110	50	54.9	110	0	73-117/11
79-01-6	Trichloroethene	76.8	50	130	106	50	131	108	1	56-139/11
75-69-4	Trichlorofluoromethane	ND	50	66.8	134	50	56.6	113	17* a	63-150/16
96-18-4	1,2,3-Trichloropropane	ND	50	47.4	95	50	49.2	98	4	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND	50	48.5	97	50	50.2	100	3	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND	50	48.8	98	50	51.0	102	4	60-128/12
108-05-4	Vinyl Acetate	ND	50	68.3	137* a	50	66.3	133* a	3	66-128/15
75-01-4	Vinyl chloride	6.4	50	75.0	137	50	69.3	126	8	48-148/17
	m,p-Xylene	ND	100	107	107	100	111	111	4	42-140/10
95-47-6	o-Xylene	ND	50	51.7	103	50	53.2	106	3	54-133/11
1330-20-7	Xylene (total)	ND	150	158	105	150	164	109	4	46-138/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24665-5MS	X190922.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5MSD	X190923.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5	X190911.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14, JD24770-16, JD24770-17

CAS No.	Surrogate Recoveries	MS	MSD	JD24665-5	Limits
1868-53-7	Dibromofluoromethane	111%	110%	110%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	103%	80-121%
2037-26-5	Toluene-D8	104%	104%	100%	80-120%
460-00-4	4-Bromofluorobenzene	88%	91%	92%	80-120%

- (a) Outside control limits due to matrix interference.
- (b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD25135-1MS	L329495.D	10	05/19/21	BK	n/a	n/a	VL9856
JD25135-1MSD	L329496.D	10	05/19/21	BK	n/a	n/a	VL9856
JD25135-1 ^a	L329494.D	10	05/19/21	BK	n/a	n/a	VL9856

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-40, JD24770-41, JD24770-46

CAS No.	Compound	JD25135-1		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
156-59-2	cis-1,2-Dichloroethene	ND	500	475	95	500	463	93	3	55-133/12
127-18-4	Tetrachloroethene	ND	500	460	92	500	466	93	1	61-134/11
79-01-6	Trichloroethene	ND	500	470	94	500	475	95	1	56-139/11

CAS No.	Surrogate Recoveries	MS	MSD	JD25135-1	Limits
1868-53-7	Dibromofluoromethane	104%	99%	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	104%	80-121%
2037-26-5	Toluene-D8	95%	95%	102%	80-120%
460-00-4	4-Bromofluorobenzene	102%	100%	99%	80-120%

(a) Preliminary Data. Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.4.8
5

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-1DUP	2E168568.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-1	2E168562.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	JD24717-1 ug/l	DUP Q ug/l	Q	RPD	Limits
67-64-1	Acetone	ND	ND	nc		17
71-43-2	Benzene	ND	ND	nc		11
108-86-1	Bromobenzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		10
75-25-2	Bromoform	ND	ND	nc		10
74-83-9	Bromomethane	ND	ND	nc		10
78-93-3	2-Butanone (MEK)	ND	ND	nc		10
104-51-8	n-Butylbenzene	ND	ND	nc		9
135-98-8	sec-Butylbenzene	ND	ND	nc		5
98-06-6	tert-Butylbenzene	ND	ND	nc		10
75-15-0	Carbon disulfide	ND	ND	nc		10
56-23-5	Carbon tetrachloride	ND	ND	nc		8
108-90-7	Chlorobenzene	ND	ND	nc		10
75-00-3	Chloroethane	ND	ND	nc		10
67-66-3	Chloroform	ND	ND	nc		8
74-87-3	Chloromethane	ND	ND	nc		10
95-49-8	o-Chlorotoluene	ND	ND	nc		10
106-43-4	p-Chlorotoluene	ND	ND	nc		10
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		10
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		10
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		10
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		10
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		6
107-06-2	1,2-Dichloroethane	ND	ND	nc		10
75-35-4	1,1-Dichloroethene	ND	ND	nc		10
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		13
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		10
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
142-28-9	1,3-Dichloropropane	ND	ND	nc		20
594-20-7	2,2-Dichloropropane	ND	ND	nc		20
563-58-6	1,1-Dichloropropene	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20

* = Outside of Control Limits.

5.5.1
5

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-1DUP	2E168568.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-1	2E168562.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Compound	JD24717-1 ug/l	DUP Q ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		20
100-41-4	Ethylbenzene	ND	ND	nc		7
87-68-3	Hexachlorobutadiene	ND	ND	nc		20
591-78-6	2-Hexanone	ND	ND	nc		10
74-88-4	Iodomethane	ND	ND	nc		11
98-82-8	Isopropylbenzene	ND	ND	nc		8
99-87-6	p-Isopropyltoluene	ND	ND	nc		10
1634-04-4	Methyl Tert Butyl Ether	5.0	5.1	2		12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	ND	nc		10
74-95-3	Methylene bromide	ND	ND	nc		20
75-09-2	Methylene chloride	ND	ND	nc		10
91-20-3	Naphthalene	ND	ND	nc		7
103-65-1	n-Propylbenzene	ND	ND	nc		9
100-42-5	Styrene	ND	ND	nc		20
630-20-6	1,1,1,2-Tetrachloroethane	ND	ND	nc		20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	nc		10
127-18-4	Tetrachloroethene	ND	ND	nc		10
108-88-3	Toluene	ND	ND	nc		10
87-61-6	1,2,3-Trichlorobenzene	ND	ND	nc		10
120-82-1	1,2,4-Trichlorobenzene	ND	ND	nc		10
71-55-6	1,1,1-Trichloroethane	ND	ND	nc		10
79-00-5	1,1,2-Trichloroethane	ND	ND	nc		10
79-01-6	Trichloroethene	ND	ND	nc		12
75-69-4	Trichlorofluoromethane	ND	ND	nc		20
96-18-4	1,2,3-Trichloropropane	ND	ND	nc		20
95-63-6	1,2,4-Trimethylbenzene	ND	ND	nc		10
108-67-8	1,3,5-Trimethylbenzene	ND	ND	nc		10
108-05-4	Vinyl Acetate	ND	ND	nc		20
75-01-4	Vinyl chloride	ND	ND	nc		6
	m,p-Xylene	ND	ND	nc		6
95-47-6	o-Xylene	ND	ND	nc		4
1330-20-7	Xylene (total)	ND	ND	nc		8

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-1DUP	2E168568.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-1	2E168562.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1, JD24770-5

CAS No.	Surrogate Recoveries	DUP	JD24717-1	Limits
1868-53-7	Dibromofluoromethane	100%	96%	85-118%
17060-07-0	1,2-Dichloroethane-D4	91%	87%	80-121%
2037-26-5	Toluene-D8	97%	95%	80-120%
460-00-4	4-Bromofluorobenzene	94%	90%	80-120%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-3DUP	2E168602.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-3	2E168595.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	JD24770-3 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
67-64-1	Acetone	ND	ND	nc		17
71-43-2	Benzene	ND	ND	nc		11
108-86-1	Bromobenzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		10
75-25-2	Bromoform	ND	ND	nc		10
74-83-9	Bromomethane	ND	ND	nc		10
78-93-3	2-Butanone (MEK)	ND	ND	nc		10
104-51-8	n-Butylbenzene	ND	ND	nc		9
135-98-8	sec-Butylbenzene	ND	ND	nc		5
98-06-6	tert-Butylbenzene	ND	ND	nc		10
75-15-0	Carbon disulfide	ND	ND	nc		10
56-23-5	Carbon tetrachloride	ND	ND	nc		8
108-90-7	Chlorobenzene	ND	ND	nc		10
75-00-3	Chloroethane	ND	ND	nc		10
67-66-3	Chloroform	ND	ND	nc		8
74-87-3	Chloromethane	ND	ND	nc		10
95-49-8	o-Chlorotoluene	ND	ND	nc		10
106-43-4	p-Chlorotoluene	ND	ND	nc		10
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		10
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		10
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		10
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		10
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		6
107-06-2	1,2-Dichloroethane	ND	ND	nc		10
75-35-4	1,1-Dichloroethene	ND	ND	nc		10
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		13
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		10
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
142-28-9	1,3-Dichloropropane	ND	ND	nc		20
594-20-7	2,2-Dichloropropane	ND	ND	nc		20
563-58-6	1,1-Dichloropropene	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20

* = Outside of Control Limits.

5.5.2
 5

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-3DUP	2E168602.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-3	2E168595.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Compound	JD24770-3 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		20
100-41-4	Ethylbenzene	ND	ND	nc		7
87-68-3	Hexachlorobutadiene	ND	ND	nc		20
591-78-6	2-Hexanone	ND	ND	nc		10
74-88-4	Iodomethane	ND	ND	nc		11
98-82-8	Isopropylbenzene	ND	ND	nc		8
99-87-6	p-Isopropyltoluene	ND	ND	nc		10
1634-04-4	Methyl Tert Butyl Ether	ND	ND	nc		12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	ND	nc		10
74-95-3	Methylene bromide	ND	ND	nc		20
75-09-2	Methylene chloride	ND	ND	nc		10
91-20-3	Naphthalene	ND	ND	nc		7
103-65-1	n-Propylbenzene	ND	ND	nc		9
100-42-5	Styrene	ND	ND	nc		20
630-20-6	1,1,1,2-Tetrachloroethane	ND	ND	nc		20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	nc		10
127-18-4	Tetrachloroethene	1.1	1.0	10		10
108-88-3	Toluene	ND	ND	nc		10
87-61-6	1,2,3-Trichlorobenzene	ND	ND	nc		10
120-82-1	1,2,4-Trichlorobenzene	ND	ND	nc		10
71-55-6	1,1,1-Trichloroethane	ND	ND	nc		10
79-00-5	1,1,2-Trichloroethane	ND	ND	nc		10
79-01-6	Trichloroethene	ND	ND	nc		12
75-69-4	Trichlorofluoromethane	ND	ND	nc		20
96-18-4	1,2,3-Trichloropropane	ND	ND	nc		20
95-63-6	1,2,4-Trimethylbenzene	ND	ND	nc		10
108-67-8	1,3,5-Trimethylbenzene	ND	ND	nc		10
108-05-4	Vinyl Acetate	ND	ND	nc		20
75-01-4	Vinyl chloride	ND	ND	nc		6
	m,p-Xylene	ND	ND	nc		6
95-47-6	o-Xylene	ND	ND	nc		4
1330-20-7	Xylene (total)	ND	ND	nc		8

* = Outside of Control Limits.

5.5.2
5

Duplicate Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-3DUP	2E168602.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-3	2E168595.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2, JD24770-3, JD24770-4, JD24770-6, JD24770-7, JD24770-8, JD24770-9, JD24770-10, JD24770-11, JD24770-12, JD24770-13, JD24770-14

CAS No.	Surrogate Recoveries	DUP	JD24770-3	Limits
1868-53-7	Dibromofluoromethane	99%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	95%	80-121%
2037-26-5	Toluene-D8	96%	97%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	80-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8308-BFB	Injection Date: 12/05/20
Lab File ID: 2E166039.D	Injection Time: 17:26
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17688	18.0	Pass
75	30.0 - 60.0% of mass 95	45440	46.4	Pass
95	Base peak, 100% relative abundance	98019	100.0	Pass
96	5.0 - 9.0% of mass 95	6429	6.56	Pass
173	Less than 2.0% of mass 174	448	0.46 (0.61) ^a	Pass
174	50.0 - 120.0% of mass 95	73581	75.1	Pass
175	5.0 - 9.0% of mass 174	5387	5.50 (7.32) ^a	Pass
176	95.0 - 101.0% of mass 174	71736	73.2 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	4756	4.85 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8308-IC8308	2E166040.D	12/05/20	18:06	00:40	Initial cal 0.2
V2E8308-IC8308	2E166041.D	12/05/20	18:35	01:09	Initial cal 0.5
V2E8308-IC8308	2E166042.D	12/05/20	19:05	01:39	Initial cal 1
V2E8308-IC8308	2E166043.D	12/05/20	19:35	02:09	Initial cal 2
V2E8308-IC8308	2E166044.D	12/05/20	20:05	02:39	Initial cal 4
V2E8308-IC8308	2E166045.D	12/05/20	20:35	03:09	Initial cal 8
V2E8308-IC8308	2E166046.D	12/05/20	21:05	03:39	Initial cal 20
V2E8308-ICC8308	2E166047.D	12/05/20	21:35	04:09	Initial cal 50
V2E8308-IC8308	2E166048.D	12/05/20	22:05	04:39	Initial cal 100
V2E8308-IC8308	2E166049.D	12/05/20	22:35	05:09	Initial cal 200
V2E8308-ICV8308	2E166052.D	12/06/20	00:05	06:39	Initial cal verification 50
V2E8308-ICV8308	2E166053.D	12/06/20	00:35	07:09	Initial cal verification 50

5.6.1
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8308-BFB2	Injection Date: 12/07/20
Lab File ID: 2E166056.D	Injection Time: 10:24
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17350	17.6	Pass
75	30.0 - 60.0% of mass 95	46011	46.6	Pass
95	Base peak, 100% relative abundance	98717	100.0	Pass
96	5.0 - 9.0% of mass 95	6553	6.64	Pass
173	Less than 2.0% of mass 174	514	0.52 (0.70) ^a	Pass
174	50.0 - 120.0% of mass 95	73909	74.9	Pass
175	5.0 - 9.0% of mass 174	5503	5.57 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	72125	73.1 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	4838	4.90 (6.71) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8308-ICV8308	2E166057.D	12/07/20	10:54	00:30	Initial cal verification 50

5.6.2
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8433-BFB	Injection Date: 05/13/21
Lab File ID: 2E168555.D	Injection Time: 09:44
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17689	16.9	Pass
75	30.0 - 60.0% of mass 95	45789	43.7	Pass
95	Base peak, 100% relative abundance	104877	100.0	Pass
96	5.0 - 9.0% of mass 95	7083	6.75	Pass
173	Less than 2.0% of mass 174	564	0.54 (0.65) ^a	Pass
174	50.0 - 120.0% of mass 95	86147	82.1	Pass
175	5.0 - 9.0% of mass 174	6169	5.88 (7.16) ^a	Pass
176	95.0 - 101.0% of mass 174	83371	79.5 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5384	5.13 (6.46) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8433-CC8308	2E168555.D	05/13/21	09:44	00:00	Continuing cal 20
V2E8433-BS	2E168557.D	05/13/21	10:50	01:06	Blank Spike
V2E8433-MB	2E168559.D	05/13/21	11:50	02:06	Method Blank
ZZZZZZ	2E168560.D	05/13/21	12:26	02:42	(unrelated sample)
ZZZZZZ	2E168561.D	05/13/21	12:56	03:12	(unrelated sample)
JD24717-1	2E168562.D	05/13/21	13:26	03:42	(used for QC only; not part of job JD24770)
JD24717-2	2E168563.D	05/13/21	13:57	04:13	(used for QC only; not part of job JD24770)
JD24717-3	2E168564.D	05/13/21	14:27	04:43	(used for QC only; not part of job JD24770)
JD24717-3MS	2E168566.D	05/13/21	15:27	05:43	Matrix Spike
JD24717-1DUP	2E168568.D	05/13/21	16:28	06:44	Duplicate
ZZZZZZ	2E168569.D	05/13/21	16:58	07:14	(unrelated sample)
JD24770-5	2E168570.D	05/13/21	17:28	07:44	EQUIPMENT BLANK 1
ZZZZZZ	2E168571.D	05/13/21	17:58	08:14	(unrelated sample)
ZZZZZZ	2E168572.D	05/13/21	18:28	08:44	(unrelated sample)
ZZZZZZ	2E168573.D	05/13/21	18:58	09:14	(unrelated sample)
ZZZZZZ	2E168574.D	05/13/21	19:29	09:45	(unrelated sample)
ZZZZZZ	2E168575.D	05/13/21	19:59	10:15	(unrelated sample)
ZZZZZZ	2E168576.D	05/13/21	20:29	10:45	(unrelated sample)
JD24770-1	2E168577.D	05/13/21	20:59	11:15	PZ-23
ZZZZZZ	2E168578.D	05/13/21	21:29	11:45	(unrelated sample)

5.6.3
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8436-BFB	Injection Date: 05/15/21
Lab File ID: 2E168589.D	Injection Time: 08:38
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18675	17.2	Pass
75	30.0 - 60.0% of mass 95	48629	44.7	Pass
95	Base peak, 100% relative abundance	108851	100.0	Pass
96	5.0 - 9.0% of mass 95	7260	6.67	Pass
173	Less than 2.0% of mass 174	637	0.59 (0.71) ^a	Pass
174	50.0 - 120.0% of mass 95	89936	82.6	Pass
175	5.0 - 9.0% of mass 174	6459	5.93 (7.18) ^a	Pass
176	95.0 - 101.0% of mass 174	88389	81.2 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	5982	5.50 (6.77) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8436-CC8308	2E168589.D	05/15/21	08:38	00:00	Continuing cal 20
V2E8436-BS	2E168590.D	05/15/21	09:16	00:38	Blank Spike
V2E8436-MB	2E168592.D	05/15/21	10:16	01:38	Method Blank
JD24770-6	2E168593.D	05/15/21	10:54	02:16	EQUIPMENT BLANK 2
JD24770-7	2E168594.D	05/15/21	11:24	02:46	EQUIPMENT BLANK 3
JD24770-3	2E168595.D	05/15/21	11:54	03:16	RX-12
JD24770-2	2E168596.D	05/15/21	12:24	03:46	PZ-21
JD24770-4	2E168597.D	05/15/21	12:54	04:16	MW-204
JD24770-2	2E168598.D	05/15/21	13:24	04:46	PZ-21
JD24770-4	2E168599.D	05/15/21	13:54	05:16	MW-204
JD24770-2MS	2E168600.D	05/15/21	14:31	05:53	Matrix Spike
JD24770-3DUP	2E168602.D	05/15/21	15:32	06:54	Duplicate
JD24770-8	2E168603.D	05/15/21	16:01	07:23	TWP-23
JD24770-9	2E168604.D	05/15/21	16:31	07:53	TWP-25
JD24770-11	2E168605.D	05/15/21	17:01	08:23	TWP-26
JD24770-12	2E168606.D	05/15/21	17:32	08:54	EW-601D
JD24770-13	2E168607.D	05/15/21	18:02	09:24	EW-501
ZZZZZZ	2E168609.D	05/15/21	19:00	10:22	(unrelated sample)
JD24770-14	2E168611.D	05/15/21	19:57	11:19	MW-401B
JD24770-10	2E168612.D	05/15/21	20:27	11:49	PZ-16

5.6.4
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8438-BFB	Injection Date: 05/17/21
Lab File ID: 2E168625.D	Injection Time: 12:14
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21829	19.0	Pass
75	30.0 - 60.0% of mass 95	54221	47.1	Pass
95	Base peak, 100% relative abundance	115133	100.0	Pass
96	5.0 - 9.0% of mass 95	7552	6.56	Pass
173	Less than 2.0% of mass 174	565	0.49 (0.62) ^a	Pass
174	50.0 - 120.0% of mass 95	90920	79.0	Pass
175	5.0 - 9.0% of mass 174	6741	5.85 (7.41) ^a	Pass
176	95.0 - 101.0% of mass 174	87936	76.4 (96.7) ^a	Pass
177	5.0 - 9.0% of mass 176	5843	5.08 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8438-CC8308	2E168626.D	05/17/21	12:44	00:30	Continuing cal 20
V2E8438-BS	2E168628.D	05/17/21	13:51	01:37	Blank Spike
V2E8438-MB	2E168630.D	05/17/21	14:52	02:38	Method Blank
ZZZZZZ	2E168631.D	05/17/21	15:28	03:14	(unrelated sample)
ZZZZZZ	2E168632.D	05/17/21	15:58	03:44	(unrelated sample)
JD24770-15	2E168633.D	05/17/21	16:28	04:14	RX-03
JD24770-15MS	2E168634.D	05/17/21	16:58	04:44	Matrix Spike
JD24770-15MSD	2E168635.D	05/17/21	17:29	05:15	Matrix Spike Duplicate
ZZZZZZ	2E168636.D	05/17/21	17:59	05:45	(unrelated sample)
JD24770-18	2E168638.D	05/17/21	18:59	06:45	MW-35D
JD24770-19	2E168639.D	05/17/21	19:29	07:15	MW-35
JD24770-20	2E168640.D	05/17/21	19:59	07:45	MW-36D
JD24770-21	2E168641.D	05/17/21	20:29	08:15	PZ-18
JD24770-22	2E168642.D	05/17/21	20:59	08:45	PZ-17
JD24770-23	2E168643.D	05/17/21	21:29	09:15	MW-34
ZZZZZZ	2E168644.D	05/17/21	21:59	09:45	(unrelated sample)
ZZZZZZ	2E168645.D	05/17/21	22:29	10:15	(unrelated sample)
ZZZZZZ	2E168646.D	05/17/21	22:59	10:45	(unrelated sample)
ZZZZZZ	2E168647.D	05/17/21	23:29	11:15	(unrelated sample)

5.6.5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VA10272-BFB	Injection Date: 03/03/21
Lab File ID: A262589.D	Injection Time: 15:35
Instrument ID: GCMSA	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.95 - 40.0% of mass 95	11466	19.5	Pass
75	30.0 - 60.0% of mass 95	28578	48.5	Pass
95	Base peak, 100% relative abundance	58928	100.0	Pass
96	5.0 - 9.0% of mass 95	3929	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	48165	81.7	Pass
175	5.0 - 9.0% of mass 174	3597	6.10 (7.47) ^a	Pass
176	95.0 - 101.0% of mass 174	46805	79.4 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	3003	5.10 (6.42) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10272-IC10272	A262590.D	03/03/21	16:15	00:40	Initial cal 0.2
VA10272-IC10272	A262591.D	03/03/21	16:45	01:10	Initial cal 0.5
VA10272-IC10272	A262592.D	03/03/21	17:14	01:39	Initial cal 1
VA10272-IC10272	A262593.D	03/03/21	17:43	02:08	Initial cal 2
VA10272-IC10272	A262594.D	03/03/21	18:12	02:37	Initial cal 4
VA10272-IC10272	A262595.D	03/03/21	18:41	03:06	Initial cal 8
VA10272-IC10272	A262596.D	03/03/21	19:10	03:35	Initial cal 20
VA10272-ICC10272	A262597.D	03/03/21	19:39	04:04	Initial cal 50
VA10272-IC10272	A262598.D	03/03/21	20:08	04:33	Initial cal 100
VA10272-IC10272	A262599.D	03/03/21	20:37	05:02	Initial cal 200
VA10272-ICV10272	A262602.D	03/03/21	22:04	06:29	Initial cal verification 50
VA10272-ICV10272	A262603.D	03/03/21	22:32	06:57	Initial cal verification 50

5.6.6
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VA10272-BFB2	Injection Date: 03/05/21
Lab File ID: A262608.D	Injection Time: 15:52
Instrument ID: GCMSA	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.95 - 40.0% of mass 95	12444	18.7	Pass
75	30.0 - 60.0% of mass 95	32613	49.0	Pass
95	Base peak, 100% relative abundance	66584	100.0	Pass
96	5.0 - 9.0% of mass 95	4353	6.54	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	54698	82.1	Pass
175	5.0 - 9.0% of mass 174	4113	6.18 (7.52) ^a	Pass
176	95.0 - 101.0% of mass 174	53016	79.6 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	3482	5.23 (6.57) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10272-ICV10272	A262609.D	03/05/21	16:21	00:29	Initial cal verification 50

5.6.7
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VA10347-BFB	Injection Date: 05/18/21
Lab File ID: A264277.D	Injection Time: 10:00
Instrument ID: GCMSA	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.95 - 40.0% of mass 95	15250	16.1	Pass
75	30.0 - 60.0% of mass 95	43933	46.5	Pass
95	Base peak, 100% relative abundance	94445	100.0	Pass
96	5.0 - 9.0% of mass 95	6686	7.08	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	77520	82.1	Pass
175	5.0 - 9.0% of mass 174	5594	5.92 (7.22) ^a	Pass
176	95.0 - 101.0% of mass 174	76675	81.2 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	4937	5.23 (6.44) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA10347-CC10272	A264277.D	05/18/21	10:00	00:00	Continuing cal 20
VA10347-BS	A264279.D	05/18/21	11:03	01:03	Blank Spike
VA10347-MB	A264281.D	05/18/21	12:02	02:02	Method Blank
ZZZZZZ	A264282.D	05/18/21	12:31	02:31	(unrelated sample)
ZZZZZZ	A264283.D	05/18/21	13:00	03:00	(unrelated sample)
JD24770-18	A264284.D	05/18/21	13:30	03:30	MW-35D
JD24770-15	A264285.D	05/18/21	13:59	03:59	RX-03
ZZZZZZ	A264286.D	05/18/21	14:28	04:28	(unrelated sample)
JD24655-6	A264287.D	05/18/21	14:58	04:58	(used for QC only; not part of job JD24770)
ZZZZZZ	A264288.D	05/18/21	15:27	05:27	(unrelated sample)
JD24655-6MS	A264289.D	05/18/21	15:56	05:56	Matrix Spike
JD24655-6MSD	A264290.D	05/18/21	16:25	06:25	Matrix Spike Duplicate
ZZZZZZ	A264291.D	05/18/21	16:54	06:54	(unrelated sample)
ZZZZZZ	A264292.D	05/18/21	17:23	07:23	(unrelated sample)
ZZZZZZ	A264293.D	05/18/21	17:53	07:53	(unrelated sample)
ZZZZZZ	A264294.D	05/18/21	18:22	08:22	(unrelated sample)
ZZZZZZ	A264295.D	05/18/21	18:51	08:51	(unrelated sample)
ZZZZZZ	A264297.D	05/18/21	19:50	09:50	(unrelated sample)
ZZZZZZ	A264298.D	05/18/21	20:19	10:19	(unrelated sample)
ZZZZZZ	A264299.D	05/18/21	20:48	10:48	(unrelated sample)
ZZZZZZ	A264300.D	05/18/21	21:17	11:17	(unrelated sample)
ZZZZZZ	A264301.D	05/18/21	21:47	11:47	(unrelated sample)

5.6.8

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9847-BFB	Injection Date: 05/13/21
Lab File ID: L329250.D	Injection Time: 20:49
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16150	20.6	Pass
75	30.0 - 60.0% of mass 95	39131	49.8	Pass
95	Base peak, 100% relative abundance	78568	100.0	Pass
96	5.0 - 9.0% of mass 95	5288	6.73	Pass
173	Less than 2.0% of mass 174	191	0.24 (0.30) ^a	Pass
174	50.0 - 120.0% of mass 95	64469	82.1	Pass
175	5.0 - 9.0% of mass 174	5079	6.46 (7.88) ^a	Pass
176	95.0 - 101.0% of mass 174	61475	78.2 (95.4) ^a	Pass
177	5.0 - 9.0% of mass 176	4556	5.80 (7.41) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9847-IC9847	L329251.D	05/13/21	21:15	00:26	Initial cal 0.2
VL9847-IC9847	L329252.D	05/13/21	21:42	00:53	Initial cal 0.5
VL9847-IC9847	L329253.D	05/13/21	22:09	01:20	Initial cal 1
VL9847-IC9847	L329254.D	05/13/21	22:36	01:47	Initial cal 2
VL9847-IC9847	L329255.D	05/13/21	23:03	02:14	Initial cal 4
VL9847-IC9847	L329256.D	05/13/21	23:30	02:41	Initial cal 8
VL9847-IC9847	L329257.D	05/13/21	23:57	03:08	Initial cal 20
VL9847-ICC9847	L329258.D	05/14/21	00:23	03:34	Initial cal 50
VL9847-IC9847	L329259.D	05/14/21	00:50	04:01	Initial cal 100
VL9847-IC9847	L329260.D	05/14/21	01:17	04:28	Initial cal 200
VL9847-ICV9847	L329263.D	05/14/21	02:38	05:49	Initial cal verification 50
VL9847-ICV9847	L329264.D	05/14/21	03:04	06:15	Initial cal verification 50

5.6.9
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9850-BFB	Injection Date: 05/16/21
Lab File ID: L329321.D	Injection Time: 09:59
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13819	20.9	Pass
75	30.0 - 60.0% of mass 95	33805	51.1	Pass
95	Base peak, 100% relative abundance	66219	100.0	Pass
96	5.0 - 9.0% of mass 95	4574	6.91	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	54931	83.0	Pass
175	5.0 - 9.0% of mass 174	4115	6.21 (7.49) ^a	Pass
176	95.0 - 101.0% of mass 174	53728	81.1 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	4042	6.10 (7.52) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9850-CC9847	L329321.D	05/16/21	09:59	00:00	Continuing cal 20
VL9850-BS	L329323.D	05/16/21	11:00	01:01	Blank Spike
VL9850-MB	L329325.D	05/16/21	11:54	01:55	Method Blank
JD24770-24	L329326.D	05/16/21	12:21	02:22	MW-34D
JD24770-25	L329327.D	05/16/21	12:48	02:49	PZ-9
JD24770-33	L329328.D	05/16/21	13:15	03:16	MW-109
ZZZZZZ	L329329.D	05/16/21	13:43	03:44	(unrelated sample)
ZZZZZZ	L329330.D	05/16/21	14:09	04:10	(unrelated sample)
JD24770-33MS	L329331.D	05/16/21	14:36	04:37	Matrix Spike
JD24770-33MSD	L329332.D	05/16/21	15:03	05:04	Matrix Spike Duplicate
ZZZZZZ	L329333.D	05/16/21	15:30	05:31	(unrelated sample)
JD24770-36	L329334.D	05/16/21	15:57	05:58	TRIP BLANK 01
JD24770-26	L329335.D	05/16/21	16:24	06:25	PZ-10
JD24770-27	L329336.D	05/16/21	16:51	06:52	MW-208
JD24770-32	L329337.D	05/16/21	17:17	07:18	RX-28
JD24770-35	L329338.D	05/16/21	17:44	07:45	RX-19
JD24770-28	L329339.D	05/16/21	18:11	08:12	MW-111
JD24770-38	L329341.D	05/16/21	19:05	09:06	EW-403
JD24770-39	L329342.D	05/16/21	19:32	09:33	MW-101
JD24770-34	L329343.D	05/16/21	19:58	09:59	EW-404
JD24770-31	L329344.D	05/16/21	20:25	10:26	MW-33
JD24770-30	L329345.D	05/16/21	20:52	10:53	RX-20
JD24770-30	L329346.D	05/16/21	21:19	11:20	RX-20

5.6.10
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9851-BFB	Injection Date: 05/16/21
Lab File ID: L329348.D	Injection Time: 22:13
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14691	20.7	Pass
75	30.0 - 60.0% of mass 95	35387	49.9	Pass
95	Base peak, 100% relative abundance	70875	100.0	Pass
96	5.0 - 9.0% of mass 95	4393	6.20	Pass
173	Less than 2.0% of mass 174	251	0.35 (0.43) ^a	Pass
174	50.0 - 120.0% of mass 95	57704	81.4	Pass
175	5.0 - 9.0% of mass 174	4623	6.52 (8.01) ^a	Pass
176	95.0 - 101.0% of mass 174	57048	80.5 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	3711	5.24 (6.51) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9851-CC9847	L329348.D	05/16/21	22:13	00:00	Continuing cal 50
VL9851-BS	L329350.D	05/16/21	23:06	00:53	Blank Spike
VL9851-MB	L329352.D	05/17/21	00:00	01:47	Method Blank
JD24770-40	L329353.D	05/17/21	00:27	02:14	RX-01
JD24770-40MS	L329354.D	05/17/21	00:54	02:41	Matrix Spike
JD24770-40MSD	L329355.D	05/17/21	01:21	03:08	Matrix Spike Duplicate
ZZZZZZ	L329357.D	05/17/21	02:15	04:02	(unrelated sample)
ZZZZZZ	L329358.D	05/17/21	02:41	04:28	(unrelated sample)
ZZZZZZ	L329359.D	05/17/21	03:08	04:55	(unrelated sample)
ZZZZZZ	L329360.D	05/17/21	03:35	05:22	(unrelated sample)
ZZZZZZ	L329361.D	05/17/21	04:02	05:49	(unrelated sample)
ZZZZZZ	L329362.D	05/17/21	04:29	06:16	(unrelated sample)
ZZZZZZ	L329363.D	05/17/21	04:56	06:43	(unrelated sample)
ZZZZZZ	L329364.D	05/17/21	05:23	07:10	(unrelated sample)
ZZZZZZ	L329365.D	05/17/21	05:50	07:37	(unrelated sample)
ZZZZZZ	L329366.D	05/17/21	06:16	08:03	(unrelated sample)
ZZZZZZ	L329367.D	05/17/21	06:43	08:30	(unrelated sample)
JD24770-37	L329368.D	05/17/21	07:10	08:57	MW-408A
ZZZZZZ	L329369.D	05/17/21	07:37	09:24	(unrelated sample)
JD24770-41	L329370.D	05/17/21	08:04	09:51	RX-05
JD24770-42	L329371.D	05/17/21	08:31	10:18	RX-07
JD24770-43	L329372.D	05/17/21	08:58	10:45	RX-13

5.6.11

5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9852-BFB	Injection Date: 05/17/21
Lab File ID: L329374.D	Injection Time: 09:55
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	15374	21.7	Pass
75	30.0 - 60.0% of mass 95	35752	50.4	Pass
95	Base peak, 100% relative abundance	70944	100.0	Pass
96	5.0 - 9.0% of mass 95	4848	6.83	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56536	79.7	Pass
175	5.0 - 9.0% of mass 174	4029	5.68 (7.13) ^a	Pass
176	95.0 - 101.0% of mass 174	55616	78.4 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	3958	5.58 (7.12) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9852-CC9847	L329374.D	05/17/21	09:55	00:00	Continuing cal 20
VL9852-BS	L329376.D	05/17/21	10:57	01:02	Blank Spike
VL9852-MB	L329378.D	05/17/21	11:51	01:56	Method Blank
ZZZZZZ	L329379.D	05/17/21	12:18	02:23	(unrelated sample)
ZZZZZZ	L329380.D	05/17/21	12:44	02:49	(unrelated sample)
ZZZZZZ	L329381.D	05/17/21	13:11	03:16	(unrelated sample)
ZZZZZZ	L329382.D	05/17/21	13:38	03:43	(unrelated sample)
ZZZZZZ	L329383.D	05/17/21	14:05	04:10	(unrelated sample)
ZZZZZZ	L329384.D	05/17/21	14:32	04:37	(unrelated sample)
JD24924-1	L329385.D	05/17/21	14:59	05:04	(used for QC only; not part of job JD24770)
ZZZZZZ	L329386.D	05/17/21	15:26	05:31	(unrelated sample)
JD24924-1	L329387.D	05/17/21	15:53	05:58	(used for QC only; not part of job JD24770)
ZZZZZZ	L329388.D	05/17/21	16:20	06:25	(unrelated sample)
JD24770-32	L329389.D	05/17/21	16:47	06:52	RX-28
JD24924-1MS	L329390.D	05/17/21	17:14	07:19	Matrix Spike
JD24924-1MSD	L329391.D	05/17/21	17:40	07:45	Matrix Spike Duplicate
ZZZZZZ	L329393.D	05/17/21	18:34	08:39	(unrelated sample)
ZZZZZZ	L329394.D	05/17/21	19:01	09:06	(unrelated sample)
ZZZZZZ	L329395.D	05/17/21	19:28	09:33	(unrelated sample)
ZZZZZZ	L329396.D	05/17/21	19:55	10:00	(unrelated sample)
ZZZZZZ	L329397.D	05/17/21	20:22	10:27	(unrelated sample)
ZZZZZZ	L329398.D	05/17/21	20:49	10:54	(unrelated sample)
ZZZZZZ	L329399.D	05/17/21	21:16	11:21	(unrelated sample)

5.6.12
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9854-BFB	Injection Date: 05/18/21
Lab File ID: L329428.D	Injection Time: 10:16
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14804	20.7	Pass
75	30.0 - 60.0% of mass 95	35747	49.9	Pass
95	Base peak, 100% relative abundance	71685	100.0	Pass
96	5.0 - 9.0% of mass 95	4348	6.07	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56331	78.6	Pass
175	5.0 - 9.0% of mass 174	4547	6.34 (8.07) ^a	Pass
176	95.0 - 101.0% of mass 174	55112	76.9 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	3712	5.18 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9854-CC9847	L329428.D	05/18/21	10:16	00:00	Continuing cal 20
VL9854-BS	L329430.D	05/18/21	11:17	01:01	Blank Spike
VL9854-MB	L329432.D	05/18/21	12:11	01:55	Method Blank
JD24981-1	L329433.D	05/18/21	12:38	02:22	(used for QC only; not part of job JD24770)
ZZZZZZ	L329434.D	05/18/21	13:05	02:49	(unrelated sample)
JD24770-29	L329435.D	05/18/21	13:32	03:16	MW-106
JD24770-33	L329436.D	05/18/21	13:59	03:43	MW-109
JD24770-34	L329437.D	05/18/21	14:26	04:10	EW-404
JD24770-31	L329438.D	05/18/21	14:52	04:36	MW-33
JD24770-38	L329439.D	05/18/21	15:19	05:03	EW-403
JD24770-39	L329440.D	05/18/21	15:46	05:30	MW-101
JD24981-1MS	L329441.D	05/18/21	16:13	05:57	Matrix Spike
JD24981-1MSD	L329442.D	05/18/21	16:40	06:24	Matrix Spike Duplicate
JD24770-29	L329445.D	05/18/21	18:01	07:45	MW-106
JD24770-45	L329446.D	05/18/21	18:28	08:12	DUP 02
ZZZZZZ	L329447.D	05/18/21	18:55	08:39	(unrelated sample)
ZZZZZZ	L329448.D	05/18/21	19:22	09:06	(unrelated sample)
ZZZZZZ	L329449.D	05/18/21	19:49	09:33	(unrelated sample)
ZZZZZZ	L329450.D	05/18/21	20:15	09:59	(unrelated sample)
ZZZZZZ	L329451.D	05/18/21	20:42	10:26	(unrelated sample)
JD24770-44	L329452.D	05/18/21	21:09	10:53	DUP 01
JD24770-46	L329453.D	05/18/21	21:36	11:20	DUP 03
JD24770-45	L329454.D	05/18/21	22:03	11:47	DUP 02

5.6.13
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9856-BFB	Injection Date: 05/19/21
Lab File ID: L329479.D	Injection Time: 10:01
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14921	21.9	Pass
75	30.0 - 60.0% of mass 95	35400	51.9	Pass
95	Base peak, 100% relative abundance	68173	100.0	Pass
96	5.0 - 9.0% of mass 95	4938	7.24	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56728	83.2	Pass
175	5.0 - 9.0% of mass 174	4248	6.23 (7.49) ^a	Pass
176	95.0 - 101.0% of mass 174	55739	81.8 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	3462	5.08 (6.21) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9856-CC9847	L329479.D	05/19/21	10:01	00:00	Continuing cal 20
VL9856-BS	L329481.D	05/19/21	11:04	01:03	Blank Spike
VL9856-MB	L329483.D	05/19/21	11:58	01:57	Method Blank
ZZZZZZ	L329484.D	05/19/21	12:25	02:24	(unrelated sample)
ZZZZZZ	L329485.D	05/19/21	12:52	02:51	(unrelated sample)
ZZZZZZ	L329486.D	05/19/21	13:19	03:18	(unrelated sample)
ZZZZZZ	L329487.D	05/19/21	13:46	03:45	(unrelated sample)
JD24770-46	L329488.D	05/19/21	14:13	04:12	DUP 03
ZZZZZZ	L329489.D	05/19/21	14:52	04:51	(unrelated sample)
JD24770-40	L329490.D	05/19/21	15:19	05:18	RX-01
ZZZZZZ	L329491.D	05/19/21	15:46	05:45	(unrelated sample)
ZZZZZZ	L329492.D	05/19/21	16:13	06:12	(unrelated sample)
JD24770-41	L329493.D	05/19/21	16:40	06:39	RX-05
JD25135-1	L329494.D	05/19/21	17:07	07:06	(used for QC only; not part of job JD24770)
JD25135-1MS	L329495.D	05/19/21	17:34	07:33	Matrix Spike
JD25135-1MSD	L329496.D	05/19/21	18:00	07:59	Matrix Spike Duplicate
ZZZZZZ	L329498.D	05/19/21	18:54	08:53	(unrelated sample)
ZZZZZZ	L329499.D	05/19/21	19:21	09:20	(unrelated sample)
ZZZZZZ	L329500.D	05/19/21	19:48	09:47	(unrelated sample)
ZZZZZZ	L329501.D	05/19/21	20:15	10:14	(unrelated sample)
ZZZZZZ	L329502.D	05/19/21	20:42	10:41	(unrelated sample)
ZZZZZZ	L329503.D	05/19/21	21:09	11:08	(unrelated sample)
ZZZZZZ	L329504.D	05/19/21	21:36	11:35	(unrelated sample)

5.6.14
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8211-BFB	Injection Date: 03/31/21
Lab File ID: X189841.D	Injection Time: 16:38
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17013	19.1	Pass
75	30.0 - 60.0% of mass 95	43258	48.6	Pass
95	Base peak, 100% relative abundance	88922	100.0	Pass
96	5.0 - 9.0% of mass 95	5859	6.59	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	85728	96.4	Pass
175	5.0 - 9.0% of mass 174	6632	7.46 (7.74) ^a	Pass
176	95.0 - 101.0% of mass 174	83293	93.7 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	5500	6.19 (6.60) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8211-IC8211	X189842.D	03/31/21	17:15	00:37	Initial cal 0.2
VX8211-IC8211	X189843.D	03/31/21	17:44	01:06	Initial cal 0.5
VX8211-IC8211	X189844.D	03/31/21	18:12	01:34	Initial cal 1
VX8211-IC8211	X189845.D	03/31/21	18:41	02:03	Initial cal 2
VX8211-IC8211	X189846.D	03/31/21	19:10	02:32	Initial cal 4
VX8211-IC8211	X189847.D	03/31/21	19:39	03:01	Initial cal 8
VX8211-IC8211	X189848.D	03/31/21	20:07	03:29	Initial cal 20
VX8211-ICC8211	X189849.D	03/31/21	20:36	03:58	Initial cal 50
VX8211-IC8211	X189850.D	03/31/21	21:05	04:27	Initial cal 100
VX8211-IC8211	X189851.D	03/31/21	21:34	04:56	Initial cal 200
VX8211-ICV8211	X189854.D	03/31/21	22:59	06:21	Initial cal verification 50
VX8211-ICV8211	X189855.D	03/31/21	23:28	06:50	Initial cal verification 50

5.6.15
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8211-BFB2	Injection Date: 04/01/21
Lab File ID: X189857.D	Injection Time: 11:57
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	19106	19.9	Pass
75	30.0 - 60.0% of mass 95	46824	48.8	Pass
95	Base peak, 100% relative abundance	95965	100.0	Pass
96	5.0 - 9.0% of mass 95	6370	6.64	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	87824	91.5	Pass
175	5.0 - 9.0% of mass 174	6809	7.10 (7.75) ^a	Pass
176	95.0 - 101.0% of mass 174	84776	88.3 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	5832	6.08 (6.88) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8211-ICV8211	X189858.D	04/01/21	12:41	00:44	Initial cal verification 50

5.6.16
5

Instrument Performance Check (BFB)

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8261-BFB	Injection Date: 05/18/21
Lab File ID: X190906.D	Injection Time: 07:41
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16059	20.5	Pass
75	30.0 - 60.0% of mass 95	36992	47.2	Pass
95	Base peak, 100% relative abundance	78360	100.0	Pass
96	5.0 - 9.0% of mass 95	5352	6.83	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	71379	91.1	Pass
175	5.0 - 9.0% of mass 174	5955	7.60 (8.34) ^a	Pass
176	95.0 - 101.0% of mass 174	70445	89.9 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4874	6.22 (6.92) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8261-CC8211	X190906.D	05/18/21	07:41	00:00	Continuing cal 20
VX8261-BS	X190908.D	05/18/21	08:47	01:06	Blank Spike
VX8261-MB	X190910.D	05/18/21	09:44	02:03	Method Blank
JD24665-5	X190911.D	05/18/21	10:33	02:52	(used for QC only; not part of job JD24770)
ZZZZZZ	X190912.D	05/18/21	11:01	03:20	(unrelated sample)
ZZZZZZ	X190913.D	05/18/21	11:30	03:49	(unrelated sample)
JD24770-14	X190914.D	05/18/21	11:58	04:17	MW-401B
ZZZZZZ	X190915.D	05/18/21	12:27	04:46	(unrelated sample)
ZZZZZZ	X190916.D	05/18/21	12:56	05:15	(unrelated sample)
JD24770-16	X190917.D	05/18/21	13:25	05:44	PZ-20
JD24770-17	X190918.D	05/18/21	13:53	06:12	MW-206B
ZZZZZZ	X190919.D	05/18/21	14:22	06:41	(unrelated sample)
ZZZZZZ	X190920.D	05/18/21	15:58	08:17	(unrelated sample)
JD24770-16	X190921.D	05/18/21	16:27	08:46	PZ-20
JD24665-5MS	X190922.D	05/18/21	16:55	09:14	Matrix Spike
JD24665-5MSD	X190923.D	05/18/21	17:24	09:43	Matrix Spike Duplicate
ZZZZZZ	X190925.D	05/18/21	18:21	10:40	(unrelated sample)
ZZZZZZ	X190926.D	05/18/21	18:50	11:09	(unrelated sample)
ZZZZZZ	X190927.D	05/18/21	19:18	11:37	(unrelated sample)

5.6.17
5

Surrogate Recovery Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD24770-1	2E168577.D	99	92	96	93
JD24770-2	2E168598.D	100	96	96	90
JD24770-2	2E168596.D	99	95	96	90
JD24770-3	2E168595.D	99	95	97	91
JD24770-4	2E168597.D	100	96	96	91
JD24770-4	2E168599.D	99	95	97	89
JD24770-5	2E168570.D	96	89	96	90
JD24770-6	2E168593.D	97	92	96	90
JD24770-7	2E168594.D	100	95	97	91
JD24770-8	2E168603.D	99	95	96	91
JD24770-9	2E168604.D	98	94	96	89
JD24770-10	2E168612.D	100	96	96	91
JD24770-11	2E168605.D	99	95	97	90
JD24770-12	2E168606.D	100	96	97	91
JD24770-13	2E168607.D	99	94	96	91
JD24770-14	X190914.D	112	106	99	91
JD24770-14	2E168611.D	99	96	96	90
JD24770-15	2E168633.D	106	106	98	95
JD24770-15	A264285.D	105	93	94	93
JD24770-16	X190921.D	115	106	100	88
JD24770-16	X190917.D	114	104	99	90
JD24770-17	X190918.D	114	104	102	90
JD24770-18	A264284.D	103	91	92	94
JD24770-18	2E168638.D	104	106	98	95
JD24770-19	2E168639.D	104	104	98	94
JD24770-20	2E168640.D	106	107	98	96
JD24770-21	2E168641.D	106	105	98	96
JD24770-22	2E168642.D	106	108	97	96
JD24770-23	2E168643.D	106	108	97	97
JD24770-24	L329326.D	99	108	106	97
JD24770-25	L329327.D	97	103	105	99
JD24770-26	L329335.D	100	107	106	100
JD24770-27	L329336.D	100	104	104	98
JD24770-28	L329339.D	100	105	106	97
JD24770-29	L329435.D	96	101	105	99
JD24770-29	L329445.D	101	101	101	94
JD24770-30	L329346.D	102	107	107	99
JD24770-30	L329345.D	100	107	105	100
JD24770-31	L329438.D	100	108	107	98
JD24770-31	L329344.D	95	103	106	96

5.7.1
5

Surrogate Recovery Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD24770-32	L329337.D	99	104	107	97
JD24770-32	L329389.D	99	107	108	98
JD24770-33	L329436.D	101	106	104	98
JD24770-33	L329328.D				
JD24770-34	L329343.D	98	104	109	98
JD24770-34	L329437.D	98	107	107	98
JD24770-35	L329338.D	102	103	107	99
JD24770-36	L329334.D	97	105	104	99
JD24770-37	L329368.D	97	106	104	99
JD24770-38	L329341.D	103	104	103	94
JD24770-38	L329439.D	98	105	103	98
JD24770-39	L329440.D	99	108	106	98
JD24770-39	L329342.D	98	103	109	96
JD24770-40	L329490.D	104	109	102	98
JD24770-40	L329353.D	97	101	110	98
JD24770-41	L329493.D	99	104	107	101
JD24770-41	L329370.D	98	105	103	100
JD24770-42	L329371.D	97	104	108	98
JD24770-43	L329372.D	99	103	108	98
JD24770-44	L329452.D	99	107	106	97
JD24770-45	L329446.D	97	107	105	99
JD24770-45	L329454.D	98	107	108	96
JD24770-46	L329488.D	101	107	104	100
JD24770-46	L329453.D	101	107	108	99
JD24655-6MS	A264289.D	101	85	96	102
JD24655-6MSD	A264290.D	100	84	99	103
JD24665-5MS	X190922.D	111	105	104	88
JD24665-5MSD	X190923.D	110	105	104	91
JD24717-1DUP	2E168568.D	100	91	97	94
JD24717-3MS	2E168566.D	99	87	97	91
JD24770-15MS	2E168634.D	107	105	98	92
JD24770-15MSD	2E168635.D	107	103	98	93
JD24770-2MS	2E168600.D	101	94	97	89
JD24770-33MS	L329331.D	100	98	95	102
JD24770-33MSD	L329332.D	102	100	96	101
JD24770-3DUP	2E168602.D	99	94	96	91
JD24770-40MS	L329354.D	100	99	97	99
JD24770-40MSD	L329355.D	102	101	95	101
JD24924-1MS	L329390.D	103	103	98	101
JD24924-1MSD	L329391.D	100	103	98	103

5.7.1
5

Surrogate Recovery Summary

Job Number: JD24770
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD24981-1MS	L329441.D	102	104	96	99
JD24981-1MSD	L329442.D	102	103	94	102
JD25135-1MS	L329495.D	104	101	95	102
JD25135-1MSD	L329496.D	99	101	95	100
V2E8433-BS	2E168557.D	99	88	98	90
V2E8433-MB	2E168559.D	97	89	95	91
V2E8436-BS	2E168590.D	100	94	97	89
V2E8436-MB	2E168592.D	98	93	96	90
V2E8438-BS	2E168628.D	106	102	98	91
V2E8438-MB	2E168630.D	104	102	97	94
VA10347-BS	A264279.D	106	92	96	100
VA10347-MB	A264281.D	107	92	94	94
VL9850-BS	L329323.D	100	101	95	101
VL9850-MB	L329325.D	99	104	106	99
VL9851-BS	L329350.D	100	102	99	98
VL9851-MB	L329352.D	102	105	106	99
VL9852-BS	L329376.D	98	102	96	101
VL9852-MB	L329378.D	96	107	108	99
VL9854-BS	L329430.D	99	99	97	101
VL9854-MB	L329432.D	99	109	106	98
VL9856-BS	L329481.D	102	102	96	99
VL9856-MB	L329483.D	98	105	102	97
VX8261-BS	X190908.D	111	102	104	90
VX8261-MB	X190910.D	113	103	98	91

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

5.7.1
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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/52/873 ORG 1116

SGS Job Number: JD24770R

Sampling Dates: 05/03/21 - 05/06/21



Report to:

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Westford, MA 01886
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Total number of pages in report: **113**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: JD24770R

BASF, 55 Crowley Road, Lewiston, ME
 Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
---------------	----------------	---------	-----------------	-----------	------------------

This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD24770-1R	05/03/21	13:15 PSC	05/07/21	AQ	Ground Water	PZ-23
JD24770-2R	05/03/21	14:10 PSC	05/07/21	AQ	Ground Water	PZ-21
JD24770-3R	05/03/21	13:30 DC	05/07/21	AQ	Ground Water	RX-12
JD24770-4R	05/03/21	14:40 DC	05/07/21	AQ	Ground Water	MW-204
JD24770-5R	05/03/21	14:25 PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 1
JD24770-6R	05/03/21	14:30 PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 2
JD24770-7R	05/03/21	14:35 PSC	05/07/21	AQ	Equipment Blank	EQUIPMENT BLANK 3
JD24770-8R	05/04/21	08:40 PSC	05/07/21	AQ	Ground Water	TWP-23
JD24770-9R	05/04/21	09:25 PSC	05/07/21	AQ	Ground Water	TWP-25
JD24770-10R	05/04/21	10:10 PSC	05/07/21	AQ	Ground Water	PZ-16
JD24770-11R	05/04/21	10:50 PSC	05/07/21	AQ	Ground Water	TWP-26
JD24770-12R	05/04/21	12:00 PSC	05/07/21	AQ	Ground Water	EW-601D



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-13R	05/04/21	12:50 PSC	05/07/21	AQ	Ground Water	EW-501
JD24770-14R	05/04/21	13:55 PSC	05/07/21	AQ	Ground Water	MW-401B
JD24770-15R	05/04/21	14:45 PSC	05/07/21	AQ	Ground Water	RX-03
JD24770-16R	05/04/21	15:30 PSC	05/07/21	AQ	Ground Water	PZ-20
JD24770-17R	05/04/21	16:20 PSC	05/07/21	AQ	Ground Water	MW-206B
JD24770-18R	05/04/21	08:45 DC	05/07/21	AQ	Ground Water	MW-35D
JD24770-19R	05/04/21	09:40 DC	05/07/21	AQ	Ground Water	MW-35
JD24770-20R	05/04/21	10:40 DC	05/07/21	AQ	Ground Water	MW-36D
JD24770-21R	05/04/21	11:30 DC	05/07/21	AQ	Ground Water	PZ-18
JD24770-22R	05/04/21	12:20 DC	05/07/21	AQ	Ground Water	PZ-17
JD24770-23R	05/04/21	13:10 DC	05/07/21	AQ	Ground Water	MW-34
JD24770-24R	05/04/21	14:00 DC	05/07/21	AQ	Ground Water	MW-34D
JD24770-25R	05/04/21	15:00 DC	05/07/21	AQ	Ground Water	PZ-9



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-26R	05/04/21	15:55 DC	05/07/21	AQ	Ground Water	PZ-10
JD24770-27R	05/04/21	16:40 DC	05/07/21	AQ	Ground Water	MW-208
JD24770-28R	05/05/21	08:10 PSC	05/07/21	AQ	Ground Water	MW-111
JD24770-29R	05/05/21	08:55 PSC	05/07/21	AQ	Ground Water	MW-106
JD24770-30R	05/05/21	09:50 PSC	05/07/21	AQ	Ground Water	RX-20
JD24770-31R	05/05/21	10:45 PSC	05/07/21	AQ	Ground Water	MW-33
JD24770-32R	05/05/21	08:15 DC	05/07/21	AQ	Ground Water	RX-28
JD24770-33R	05/05/21	09:15 DC	05/07/21	AQ	Ground Water	MW-109
JD24770-34R	05/05/21	10:10 DC	05/07/21	AQ	Ground Water	EW-404
JD24770-35R	05/05/21	11:10 DC	05/07/21	AQ	Ground Water	RX-19
JD24770-36R	05/06/21	10:35 PSC	05/07/21	AQ	Trip Blank Water	TRIP BLANK 01
JD24770-37R	05/06/21	07:55 DC	05/07/21	AQ	Ground Water	MW-408A
JD24770-38R	05/06/21	10:35 PSC	05/07/21	AQ	Ground Water	EW-403



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD24770R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/52/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD24770-39R	05/06/21	09:30 PSC	05/07/21	AQ	Ground Water	MW-101
JD24770-40R	05/06/21	08:50 DC	05/07/21	AQ	Ground Water	RX-01
JD24770-41R	05/06/21	09:50 DC	05/07/21	AQ	Ground Water	RX-05
JD24770-42R	05/06/21	07:50 PSC	05/07/21	AQ	Ground Water	RX-07
JD24770-43R	05/06/21	08:40 PSC	05/07/21	AQ	Ground Water	RX-13
JD24770-44R	05/06/21	08:55 DC	05/07/21	AQ	Ground Water	DUP 01
JD24770-45R	05/06/21	09:55 DC	05/07/21	AQ	Ground Water	DUP 02
JD24770-46R	05/06/21	09:35 PSC	05/07/21	AQ	Ground Water	DUP 03

Summary of Hits

Job Number: JD24770R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-1R PZ-23

No hits reported in this sample.

JD24770-2R PZ-21

No hits reported in this sample.

JD24770-3R RX-12

No hits reported in this sample.

JD24770-4R MW-204

No hits reported in this sample.

JD24770-5R EQUIPMENT BLANK 1

No hits reported in this sample.

JD24770-6R EQUIPMENT BLANK 2

No hits reported in this sample.

JD24770-7R EQUIPMENT BLANK 3

No hits reported in this sample.

JD24770-8R TWP-23

No hits reported in this sample.

JD24770-9R TWP-25

No hits reported in this sample.

JD24770-10R PZ-16

No hits reported in this sample.

JD24770-11R TWP-26

No hits reported in this sample.

Summary of Hits

Job Number: JD24770R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-12R EW-601D

No hits reported in this sample.

JD24770-13R EW-501

No hits reported in this sample.

JD24770-14R MW-401B

No hits reported in this sample.

JD24770-15R RX-03

No hits reported in this sample.

JD24770-16R PZ-20

No hits reported in this sample.

JD24770-17R MW-206B

No hits reported in this sample.

JD24770-18R MW-35D

No hits reported in this sample.

JD24770-19R MW-35

No hits reported in this sample.

JD24770-20R MW-36D

No hits reported in this sample.

JD24770-21R PZ-18

No hits reported in this sample.

JD24770-22R PZ-17

No hits reported in this sample.

Summary of Hits

Job Number: JD24770R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-23R MW-34

No hits reported in this sample.

JD24770-24R MW-34D

No hits reported in this sample.

JD24770-25R PZ-9

No hits reported in this sample.

JD24770-26R PZ-10

No hits reported in this sample.

JD24770-27R MW-208

No hits reported in this sample.

JD24770-28R MW-111

No hits reported in this sample.

JD24770-29R MW-106

No hits reported in this sample.

JD24770-30R RX-20

No hits reported in this sample.

JD24770-31R MW-33

No hits reported in this sample.

JD24770-32R RX-28

No hits reported in this sample.

JD24770-33R MW-109

No hits reported in this sample.

Summary of Hits

Job Number: JD24770R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-34R EW-404

No hits reported in this sample.

JD24770-35R RX-19

No hits reported in this sample.

JD24770-36R TRIP BLANK 01

No hits reported in this sample.

JD24770-37R MW-408A

No hits reported in this sample.

JD24770-38R EW-403

No hits reported in this sample.

JD24770-39R MW-101

No hits reported in this sample.

JD24770-40R RX-01

No hits reported in this sample.

JD24770-41R RX-05

No hits reported in this sample.

JD24770-42R RX-07

No hits reported in this sample.

JD24770-43R RX-13

No hits reported in this sample.

JD24770-44R DUP 01

No hits reported in this sample.

Summary of Hits

Job Number: JD24770R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 05/03/21 thru 05/06/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD24770-45R DUP 02

No hits reported in this sample.

JD24770-46R DUP 03

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: PZ-23	Date Sampled: 05/03/21
Lab Sample ID: JD24770-1R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168577R.D	1	05/13/21 20:59	EH	n/a	n/a	V2E8433
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND. This compound in blank spike is outside in house QC limits bias low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: PZ-21	Date Sampled: 05/03/21
Lab Sample ID: JD24770-2R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168598R.D	1	05/15/21 13:24	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%	
2037-26-5	Toluene-D8	96%		80-120%	
460-00-4	4-Bromofluorobenzene	90%		82-114%	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12	Date Sampled: 05/03/21
Lab Sample ID: JD24770-3R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168595R.D	1	05/15/21 11:54	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204	Date Sampled: 05/03/21
Lab Sample ID: JD24770-4R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168599R.D	1	05/15/21 13:54	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: EQUIPMENT BLANK 1	Date Sampled: 05/03/21
Lab Sample ID: JD24770-5R	Date Received: 05/07/21
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168570R.D	1	05/13/21 17:28	EH	n/a	n/a	V2E8433
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND. This compound in blank spike is outside in house QC limits bias low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: EQUIPMENT BLANK 2	
Lab Sample ID: JD24770-6R	Date Sampled: 05/03/21
Matrix: AQ - Equipment Blank	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168593R.D	1	05/15/21 10:54	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK 3	Date Sampled: 05/03/21
Lab Sample ID: JD24770-7R	Date Received: 05/07/21
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168594R.D	1	05/15/21 11:24	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: TWP-23	Date Sampled: 05/04/21
Lab Sample ID: JD24770-8R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168603R.D	1	05/15/21 16:01	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.9
3

Client Sample ID: TWP-25	Date Sampled: 05/04/21
Lab Sample ID: JD24770-9R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168604R.D	1	05/15/21 16:31	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16	Date Sampled: 05/04/21
Lab Sample ID: JD24770-10R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168612R.D	1	05/15/21 20:27	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26	Date Sampled: 05/04/21
Lab Sample ID: JD24770-11R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168605R.D	1	05/15/21 17:01	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		Date Sampled: 05/04/21
Lab Sample ID: JD24770-12R		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168606R.D	1	05/15/21 17:32	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501	Date Sampled: 05/04/21
Lab Sample ID: JD24770-13R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168607R.D	1	05/15/21 18:02	EH	n/a	n/a	V2E8436
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-401B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-14R		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X190914R.D	25	05/18/21 11:58	ED	n/a	n/a	VX8261
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	3100	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	112%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%	
2037-26-5	Toluene-D8	99%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-03	Date Sampled: 05/04/21
Lab Sample ID: JD24770-15R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2E168633R.D	50	05/17/21 16:28	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^b	ND	6300	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	106%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	95%		82-114%	

- (a) Dilution required due to high concentration of non-target compound.
 (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20	Date Sampled: 05/04/21
Lab Sample ID: JD24770-16R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X190921R.D	250	05/18/21 16:27	ED	n/a	n/a	VX8261
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	31000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	88%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-206B		Date Sampled: 05/04/21
Lab Sample ID: JD24770-17R		Date Received: 05/07/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X190918R.D	1	05/18/21 13:53	ED	n/a	n/a	VX8261
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	114%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	102%		80-120%	
460-00-4	4-Bromofluorobenzene	90%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35D	Date Sampled: 05/04/21
Lab Sample ID: JD24770-18R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168638R.D	1	05/17/21 18:59	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35	Date Sampled: 05/04/21
Lab Sample ID: JD24770-19R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168639R.D	1	05/17/21 19:29	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	94%		82-114%	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D	Date Sampled: 05/04/21
Lab Sample ID: JD24770-20R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168640R.D	1	05/17/21 19:59	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	106%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	96%		82-114%	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18	Date Sampled: 05/04/21
Lab Sample ID: JD24770-21R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168641R.D	1	05/17/21 20:29	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17	Date Sampled: 05/04/21
Lab Sample ID: JD24770-22R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168642R.D	1	05/17/21 20:59	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34	Date Sampled: 05/04/21
Lab Sample ID: JD24770-23R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E168643R.D	1	05/17/21 21:29	EH	n/a	n/a	V2E8438
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D	Date Sampled: 05/04/21
Lab Sample ID: JD24770-24R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329326R.D	1	05/16/21 12:21	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%	
2037-26-5	Toluene-D8	106%		80-120%	
460-00-4	4-Bromofluorobenzene	97%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		
Lab Sample ID: JD24770-25R		Date Sampled: 05/04/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329327R.D	1	05/16/21 12:48	BK	n/a	n/a	VL9850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10 Lab Sample ID: JD24770-26R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 05/04/21 Date Received: 05/07/21 Percent Solids: n/a
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	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329335R.D	1	05/16/21 16:24	BK	n/a	n/a	VL9850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-208	Date Sampled: 05/04/21
Lab Sample ID: JD24770-27R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329336R.D	1	05/16/21 16:51	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-111	Date Sampled: 05/05/21
Lab Sample ID: JD24770-28R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329339R.D	50	05/16/21 18:11	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	6300	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	106%		80-120%	
460-00-4	4-Bromofluorobenzene	97%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-106	Date Sampled: 05/05/21
Lab Sample ID: JD24770-29R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329445R.D	50	05/18/21 18:01	BK	n/a	n/a	VL9854
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	6300	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	94%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-20	Date Sampled: 05/05/21
Lab Sample ID: JD24770-30R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329346R.D	1	05/16/21 21:19	BK	n/a	n/a	VL9850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-33	Date Sampled: 05/05/21
Lab Sample ID: JD24770-31R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329438R.D	1	05/18/21 14:52	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28	Date Sampled: 05/05/21
Lab Sample ID: JD24770-32R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329337R.D	1	05/16/21 17:17	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-109	Date Sampled: 05/05/21
Lab Sample ID: JD24770-33R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329436R.D	1	05/18/21 13:59	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-404	Date Sampled: 05/05/21
Lab Sample ID: JD24770-34R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329343R.D	1	05/16/21 19:58	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		
Lab Sample ID: JD24770-35R		Date Sampled: 05/05/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329338R.D	1	05/16/21 17:44	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%	
2037-26-5	Toluene-D8	107%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK 01		
Lab Sample ID: JD24770-36R		Date Sampled: 05/06/21
Matrix: AQ - Trip Blank Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329334R.D	1	05/16/21 15:57	BK	n/a	n/a	VL9850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	97%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	104%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A		
Lab Sample ID: JD24770-37R		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L329368R.D	1	05/17/21 07:10	BK	n/a	n/a	VL9851
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	97%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%	
2037-26-5	Toluene-D8	104%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-403	Date Sampled: 05/06/21
Lab Sample ID: JD24770-38R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329341R.D	25	05/16/21 19:05	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	3100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-101	Date Sampled: 05/06/21
Lab Sample ID: JD24770-39R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329342R.D	200	05/16/21 19:32	BK	n/a	n/a	VL9850
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	25000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-01	Date Sampled: 05/06/21
Lab Sample ID: JD24770-40R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329353R.D	20	05/17/21 00:27	BK	n/a	n/a	VL9851
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	110%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-05	Date Sampled: 05/06/21
Lab Sample ID: JD24770-41R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329370R.D	250	05/17/21 08:04	BK	n/a	n/a	VL9851
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	31000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	98%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	103%		80-120%	
460-00-4	4-Bromofluorobenzene	100%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-07	Date Sampled: 05/06/21
Lab Sample ID: JD24770-42R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329371R.D	100	05/17/21 08:31	BK	n/a	n/a	VL9851
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	13000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-13	
Lab Sample ID: JD24770-43R	Date Sampled: 05/06/21
Matrix: AQ - Ground Water	Date Received: 05/07/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329372R.D	250	05/17/21 08:58	BK	n/a	n/a	VL9851
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	31000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%	
2037-26-5	Toluene-D8	108%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 01		
Lab Sample ID: JD24770-44R		Date Sampled: 05/06/21
Matrix: AQ - Ground Water		Date Received: 05/07/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329452R.D	100	05/18/21 21:09	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	13000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	99%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%	
2037-26-5	Toluene-D8	106%		80-120%	
460-00-4	4-Bromofluorobenzene	97%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 02	Date Sampled: 05/06/21
Lab Sample ID: JD24770-45R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329454R.D	250	05/18/21 22:03	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	31000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	98%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%	
2037-26-5	Toluene-D8	108%		80-120%	
460-00-4	4-Bromofluorobenzene	96%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP 03	Date Sampled: 05/06/21
Lab Sample ID: JD24770-46R	Date Received: 05/07/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L329453R.D	250	05/18/21 21:36	BK	n/a	n/a	VL9854
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	31000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%	
2037-26-5	Toluene-D8	108%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



GW
EB
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

TF-042521-22

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FEDEX Tracking # 930443704072
SGS Quote # GES MA #11905-00
Bottle Order Control # TF0542042
SGS Job # JD24770

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes																																																																																											
Company Name Groundwater and Environmental Services, Inc. Street Address One Park Drive, Suite 8 City State Zip Westford MA 01886 Project Contact Kevin Kitchin E-mail kkitchin@gesonline.com Phone # Fax # 1-800-221-6119 ext. 3230		Project Name BASF Lewiston Street 55 Crowley Road City State Lewiston ME Billing Information (if different from Report to) Company Name Project # 1605501 Client Purchase Order # 1605501/52/873 ORG 1116 Project Manager Kevin Kitchin Attention GES-invoices@gesonline.com		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																																																																							
Lab Sample #	Field ID / Point of Collection	MEQ/MDI Vial #	Date	Time	Sampled by	Matrix	# of bottles	NO ₃	NO ₂	NO ₃ -N	NO ₂ -N	NH ₄ -N	PHOS	AMMONIA	CHLORIDE	SULFIDE	CO ₂	FLUORIDE	ARSENIC	CADMIUM	COPPER	CHROMIUM	LEAD	MANGANESE	NICKEL	SILICA	SILVER	ZINC	OTHER	LAB USE ONLY																																																																													
1	PZ-23		5-3-21	1315	PSC	GW	3																																																																																																				
2	PZ-21		5-3-21	1410	PSC	GW	3																							V603																																																																													
3	Rx-12		5-3-21	1330	DC	GW	3																							V604																																																																													
4	MW-204		5-3-21	1440	DC	GW	3																																																																																																				
5	Equipment Blank 1		5-3-21	1425	PSC	EB	3																																																																																																				
6	Equipment Blank 2		5-3-21	1430	PSC	EB	3																																																																																																				
7	Equipment Blank 3		5-3-21	1435	PSC	EB	3																																																																																																				
8	TWP-23		5-4-21	0840	PSC	GW	3																																																																																																				
9	TWP-25		5-4-21	0925	PSC	GW	3																																																																																																				
10	PZ-16		5-4-21	1010	PSC	GW	3																																																																																																				
11	TWP-26		5-4-21	1050	PSC	GW	3																																																																																																				
<input checked="" type="checkbox"/> Std. 10 Business Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> other		Approved by (SGS Project Manager)/Date: INITIAL ASSESSMENT 2B-PP LABEL VERIFICATION		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other ME DEP <input type="checkbox"/> NJ Data of Known Quality Protocol Reporting Commercial "A" = Results Only; Commercial "B" = Results + OC Summary NJ Reduced = Results + OC Summary + Partial Raw data												Comments / Special Instructions Please email lab report to kkitchin@gesonline.com and NERegion@gesonline.com Please email invoices to GES-invoices@gesonline.com . Laboratory Reporting limits should meet ME/DEP GW Quality Standards. Sample inventory is verified upon receipt in the Laboratory																																																																																											
Emergency & Rush TIA data available via LabLink																	Sample Custody must be documented below each time samples change possession, including courier delivery.																																																																																										
1	Sampled By: <i>[Signature]</i>	Date/Time: 5-6-21 1425	Received By: <i>[Signature]</i>	Date/Time: 5/12/21 1530	Relinquished By: <i>[Signature]</i>	Date/Time: 5/12/21 1607	Received By: <i>[Signature]</i>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

JD24770R: Chain of Custody

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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsus

JD24770

93044370 4072 Bottle Order Control # TF0542042
SGS Order # GES MA #11905-00 SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, Date, Time, Sampled by, Matrix, # of bottles, etc.

4.1 4

JD24770R: Chain of Custody





CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehusa

JD 24770

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Field Order # 9304 4370 4072
Bottle Order Control # TF0542042
SGS Invoice # GES MA #11905-00
SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, Date, Time, Sampled by, Matrix, # of bottles, Data Deliverable Information, Sample Custody must be documented below each time samples change possession, including courier delivery.

4.1
4

SGS-ACCUTEST
MARLBOR 5/7

JD24770R: Chain of Custody

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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
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JD 24770

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93024372 4072
Bottle Order Control # TF0542042
SGS Order # GES MA #11905-00
SGS Job #

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Lab Sample #, Field ID / Point of Collection, MEQ/MDI, Date, Time, Sampled by, Matrix, # of bottles, etc.

4.1
4

JD24770R: Chain of Custody

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MARLBOR 5/7



JD24770



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

ES&S Tracking # 23044370 4072
SGS Quote # GES MA #11905-00
Bottle Order Control # TF0542042
SGS Job #

Form containing Client/Reporting Information, Project Information, Requested Analysis, Matrix Codes, Lab Sample #, Date, Time, and various checkboxes for reporting categories and delivery instructions.

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SGS-ACCUTEST MARLBOR 5/2



SGS Sample Receipt Summary

Job Number: JD24770

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 5/7/2021 6:00:00 PM

Delivery Method: FEDEX

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (1.6);

Cooler Security

	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature

	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Documentation

	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Condition

	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

Sample Integrity - Instructions

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-02 Rev. Date 12/1/16

JD24770R: Chain of Custody

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Responded to by:

Response Date:

4.1

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JD24770R: Chain of Custody
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SGS Sample Receipt Summary

Job Number: JD24770

Client: Groundwater and Environmental Service

Project: BASF LEWISTON

Date / Time Received: 5/7/2021

Delivery Method:

Airbill #s:

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: 212820	pH 12+: 203117A	Other: (Specify) _____
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Comments	1). On page 2 for samples 12-22, No collection dates on the COC. Please Confirm.
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SM089-02 Rev. Date 12/11/16

JD24770R: Chain of Custody

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-12-22: Collection date is 5/4/2021.
Per Donald Curtiss

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Job Change Order: JD24770

Requested Date: 7/21/2022 **Received Date:** 5/7/2021
Account Name: Groundwater & Environmental Se **Due Date:** 7/21/2022
Project Description: BASF, 55 Crowley Road, Lewiston, ME **Deliverable:** COMMB
C/O Initiated By: BETH WASS **PM:** MM **TAT (Days):** 14

=====
Sample #: JD24770-All **Change:**
Dept: Relog/retrieve for VR826014DIOXANE

TAT: 14

=====

JD24770R: Chain of Custody
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Above Changes Per: Brian Horan **Date/Time:** 7/22/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-MB	2E168559.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1R, JD24770-5R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	114	130	ug/l	J

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	97%	85-118%
17060-07-0	1,2-Dichloroethane-D4	89%	80-121%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-MB	2E168592.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD24770-2R, JD24770-3R, JD24770-4R, JD24770-6R, JD24770-7R, JD24770-8R, JD24770-9R, JD24770-10R, JD24770-11R, JD24770-12R, JD24770-13R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	98%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-MB	L329325.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24R, JD24770-25R, JD24770-26R, JD24770-27R, JD24770-28R, JD24770-30R, JD24770-32R, JD24770-34R, JD24770-35R, JD24770-36R, JD24770-38R, JD24770-39R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	80-121%
2037-26-5	Toluene-D8	106%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.56	8.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-MB	L329352.D	1	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37R, JD24770-40R, JD24770-41R, JD24770-42R, JD24770-43R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	80-121%
2037-26-5	Toluene-D8	106%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifacts	1.56	8	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-MB	2E168630.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15R, JD24770-18R, JD24770-19R, JD24770-20R, JD24770-21R, JD24770-22R, JD24770-23R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-MB	X190910.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14R, JD24770-16R, JD24770-17R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	113%	85-118%
17060-07-0	1,2-Dichloroethane-D4	103%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-MB	L329432.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29R, JD24770-31R, JD24770-33R, JD24770-44R, JD24770-45R, JD24770-46R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	109%	80-121%
2037-26-5	Toluene-D8	106%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.56	6.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8433-BS	2E168557.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1R, JD24770-5R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	790	63* a	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	88%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

(a) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8436-BS	2E168590.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2R, JD24770-3R, JD24770-4R, JD24770-6R, JD24770-7R, JD24770-8R, JD24770-9R, JD24770-10R, JD24770-11R, JD24770-12R, JD24770-13R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1560	125	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	89%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9850-BS	L329323.D	1	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24R, JD24770-25R, JD24770-26R, JD24770-27R, JD24770-28R, JD24770-30R, JD24770-32R, JD24770-34R, JD24770-35R, JD24770-36R, JD24770-38R, JD24770-39R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1170	94	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	101%	80-121%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9851-BS	L329350.D	1	05/16/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37R, JD24770-40R, JD24770-41R, JD24770-42R, JD24770-43R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1230	98	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8438-BS	2E168628.D	1	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD24770-15R, JD24770-18R, JD24770-19R, JD24770-20R, JD24770-21R, JD24770-22R, JD24770-23R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1540	123	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX8261-BS	X190908.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14R, JD24770-16R, JD24770-17R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1160	93	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	90%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL9854-BS	L329430.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29R, JD24770-31R, JD24770-33R, JD24770-44R, JD24770-45R, JD24770-46R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1290	103	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-3MS	2E168566.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-3	2E168564.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1R, JD24770-5R

CAS No.	Compound	JD24717-3 ug/l	Spike Q	MS ug/l	MS %	Limits
123-91-1	1,4-Dioxane	ND		1250	1580	126 61-133

CAS No.	Surrogate Recoveries	MS	JD24717-3	Limits
1868-53-7	Dibromofluoromethane	99%	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	87%	91%	80-121%
2037-26-5	Toluene-D8	97%	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	93%	80-120%

* = Outside of Control Limits.

5.3.1
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Matrix Spike Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-2MS	2E168600.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168598.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-2	2E168596.D	10	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2R, JD24770-3R, JD24770-4R, JD24770-6R, JD24770-7R, JD24770-8R, JD24770-9R, JD24770-10R, JD24770-11R, JD24770-12R, JD24770-13R

CAS No.	Compound	JD24770-2 ug/l	Spike Q	MS ug/l	MS %	Limits
123-91-1	1,4-Dioxane	104		1250	1120	81 61-133

CAS No.	Surrogate Recoveries	MS	JD24770-2	JD24770-2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	96%	95%	80-121%
2037-26-5	Toluene-D8	97%	96%	96%	80-120%
460-00-4	4-Bromofluorobenzene	89%	90%	90%	80-120%

* = Outside of Control Limits.

5.3.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-33MS	L329331.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33MSD	L329332.D	5	05/16/21	BK	n/a	n/a	VL9850
JD24770-33 ^a	L329328.D	5	05/16/21	BK	n/a	n/a	VL9850

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-24R, JD24770-25R, JD24770-26R, JD24770-27R, JD24770-28R, JD24770-30R, JD24770-32R, JD24770-34R, JD24770-35R, JD24770-36R, JD24770-38R, JD24770-39R

CAS No.	Compound	JD24770-33 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	6250	6680	107	6250	6980	112	4	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-33	Limits
1868-53-7	Dibromofluoromethane	100%	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	98%	100%		80-121%
2037-26-5	Toluene-D8	95%	96%		80-120%
460-00-4	4-Bromofluorobenzene	102%	101%		80-120%

(a) Sample used for QC purposes only.

* = Outside of Control Limits.

5.4.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-40MS	L329354.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40MSD	L329355.D	20	05/17/21	BK	n/a	n/a	VL9851
JD24770-40 ^a	L329353.D	20	05/17/21	BK	n/a	n/a	VL9851

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-37R, JD24770-40R, JD24770-41R, JD24770-42R, JD24770-43R

CAS No.	Compound	JD24770-40 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	25000	23700	95	25000	23400	94	1	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-40	Limits
1868-53-7	Dibromofluoromethane	100%	102%	97%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	101%	101%	80-121%
2037-26-5	Toluene-D8	97%	95%	110%	80-120%
460-00-4	4-Bromofluorobenzene	99%	101%	98%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-15MS	2E168634.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15MSD	2E168635.D	50	05/17/21	EH	n/a	n/a	V2E8438
JD24770-15 ^a	2E168633.D	50	05/17/21	EH	n/a	n/a	V2E8438

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-15R, JD24770-18R, JD24770-19R, JD24770-20R, JD24770-21R, JD24770-22R, JD24770-23R

CAS No.	Compound	JD24770-15 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	62500	76900	123	62500	93500	150* ^b	19	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD24770-15	Limits
1868-53-7	Dibromofluoromethane	107%	107%	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	106%	80-121%
2037-26-5	Toluene-D8	98%	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	92%	93%	95%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.4.3
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24981-1MS	L329441.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1MSD	L329442.D	1	05/18/21	BK	n/a	n/a	VL9854
JD24981-1	L329433.D	1	05/18/21	BK	n/a	n/a	VL9854

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-29R, JD24770-31R, JD24770-33R, JD24770-44R, JD24770-45R, JD24770-46R

CAS No.	Compound	JD24981-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	1250	1160	93	1250	1180	94	2	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD24981-1	Limits
1868-53-7	Dibromofluoromethane	102%	102%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	103%	80-121%
2037-26-5	Toluene-D8	96%	94%	105%	80-120%
460-00-4	4-Bromofluorobenzene	99%	102%	100%	80-120%

* = Outside of Control Limits.

5.4.4
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24665-5MS	X190922.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5MSD	X190923.D	1	05/18/21	ED	n/a	n/a	VX8261
JD24665-5	X190911.D	1	05/18/21	ED	n/a	n/a	VX8261

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-14R, JD24770-16R, JD24770-17R

CAS No.	Compound	JD24665-5 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	1250	1240	99	1250	1230	98	1	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD24665-5	Limits
1868-53-7	Dibromofluoromethane	111%	110%	110%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	105%	103%	80-121%
2037-26-5	Toluene-D8	104%	104%	100%	80-120%
460-00-4	4-Bromofluorobenzene	88%	91%	92%	80-120%

* = Outside of Control Limits.

5.4.5
5

Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24717-1DUP	2E168568.D	1	05/13/21	EH	n/a	n/a	V2E8433
JD24717-1	2E168562.D	1	05/13/21	EH	n/a	n/a	V2E8433

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-1R, JD24770-5R

CAS No.	Compound	JD24717-1 ug/l	DUP Q	DUP ug/l	Q	RPD	Limits
123-91-1	1,4-Dioxane	ND		ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JD24717-1	Limits
1868-53-7	Dibromofluoromethane	100%	96%	85-118%
17060-07-0	1,2-Dichloroethane-D4	91%	87%	80-121%
2037-26-5	Toluene-D8	97%	95%	80-120%
460-00-4	4-Bromofluorobenzene	94%	90%	80-120%

* = Outside of Control Limits.

5.5.1
5

Duplicate Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD24770-3DUP	2E168602.D	1	05/15/21	EH	n/a	n/a	V2E8436
JD24770-3	2E168595.D	1	05/15/21	EH	n/a	n/a	V2E8436

The QC reported here applies to the following samples:

Method: SW846 8260D

JD24770-2R, JD24770-3R, JD24770-4R, JD24770-6R, JD24770-7R, JD24770-8R, JD24770-9R, JD24770-10R, JD24770-11R, JD24770-12R, JD24770-13R

CAS No.	Compound	JD24770-3 ug/l	DUP Q	ug/l	Q	RPD	Limits
123-91-1	1,4-Dioxane	ND	ND			nc	20

CAS No.	Surrogate Recoveries	DUP	JD24770-3	Limits
1868-53-7	Dibromofluoromethane	99%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	95%	80-121%
2037-26-5	Toluene-D8	96%	97%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	80-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8308-BFB	Injection Date: 12/05/20
Lab File ID: 2E166039.D	Injection Time: 17:26
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17688	18.0	Pass
75	30.0 - 60.0% of mass 95	45440	46.4	Pass
95	Base peak, 100% relative abundance	98019	100.0	Pass
96	5.0 - 9.0% of mass 95	6429	6.56	Pass
173	Less than 2.0% of mass 174	448	0.46 (0.61) ^a	Pass
174	50.0 - 120.0% of mass 95	73581	75.1	Pass
175	5.0 - 9.0% of mass 174	5387	5.50 (7.32) ^a	Pass
176	95.0 - 101.0% of mass 174	71736	73.2 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	4756	4.85 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8308-IC8308	2E166040.D	12/05/20	18:06	00:40	Initial cal 0.2
V2E8308-IC8308	2E166041.D	12/05/20	18:35	01:09	Initial cal 0.5
V2E8308-IC8308	2E166042.D	12/05/20	19:05	01:39	Initial cal 1
V2E8308-IC8308	2E166043.D	12/05/20	19:35	02:09	Initial cal 2
V2E8308-IC8308	2E166044.D	12/05/20	20:05	02:39	Initial cal 4
V2E8308-IC8308	2E166045.D	12/05/20	20:35	03:09	Initial cal 8
V2E8308-IC8308	2E166046.D	12/05/20	21:05	03:39	Initial cal 20
V2E8308-ICC8308	2E166047.D	12/05/20	21:35	04:09	Initial cal 50
V2E8308-IC8308	2E166048.D	12/05/20	22:05	04:39	Initial cal 100
V2E8308-IC8308	2E166049.D	12/05/20	22:35	05:09	Initial cal 200
V2E8308-ICV8308	2E166052.D	12/06/20	00:05	06:39	Initial cal verification 50
V2E8308-ICV8308	2E166053.D	12/06/20	00:35	07:09	Initial cal verification 50

5.6.1
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8308-BFB2	Injection Date: 12/07/20
Lab File ID: 2E166056.D	Injection Time: 10:24
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17350	17.6	Pass
75	30.0 - 60.0% of mass 95	46011	46.6	Pass
95	Base peak, 100% relative abundance	98717	100.0	Pass
96	5.0 - 9.0% of mass 95	6553	6.64	Pass
173	Less than 2.0% of mass 174	514	0.52 (0.70) ^a	Pass
174	50.0 - 120.0% of mass 95	73909	74.9	Pass
175	5.0 - 9.0% of mass 174	5503	5.57 (7.45) ^a	Pass
176	95.0 - 101.0% of mass 174	72125	73.1 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	4838	4.90 (6.71) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8308-ICV8308	2E166057.D	12/07/20	10:54	00:30	Initial cal verification 50

5.6.2
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8433-BFB	Injection Date: 05/13/21
Lab File ID: 2E168555.D	Injection Time: 09:44
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17689	16.9	Pass
75	30.0 - 60.0% of mass 95	45789	43.7	Pass
95	Base peak, 100% relative abundance	104877	100.0	Pass
96	5.0 - 9.0% of mass 95	7083	6.75	Pass
173	Less than 2.0% of mass 174	564	0.54 (0.65) ^a	Pass
174	50.0 - 120.0% of mass 95	86147	82.1	Pass
175	5.0 - 9.0% of mass 174	6169	5.88 (7.16) ^a	Pass
176	95.0 - 101.0% of mass 174	83371	79.5 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5384	5.13 (6.46) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8433-CC8308	2E168555.D	05/13/21	09:44	00:00	Continuing cal 20
V2E8433-BS	2E168557.D	05/13/21	10:50	01:06	Blank Spike
V2E8433-MB	2E168559.D	05/13/21	11:50	02:06	Method Blank
ZZZZZZ	2E168560.D	05/13/21	12:26	02:42	(unrelated sample)
ZZZZZZ	2E168561.D	05/13/21	12:56	03:12	(unrelated sample)
JD24717-1	2E168562.D	05/13/21	13:26	03:42	(used for QC only; not part of job JD24770R)
JD24717-2	2E168563.D	05/13/21	13:57	04:13	(used for QC only; not part of job JD24770R)
JD24717-3	2E168564.D	05/13/21	14:27	04:43	(used for QC only; not part of job JD24770R)
JD24717-3MS	2E168566.D	05/13/21	15:27	05:43	Matrix Spike
JD24717-1DUP	2E168568.D	05/13/21	16:28	06:44	Duplicate
ZZZZZZ	2E168569.D	05/13/21	16:58	07:14	(unrelated sample)
ZZZZZZ	2E168570.D	05/13/21	17:28	07:44	(unrelated sample)
JD24770-5R	2E168570R.D	05/13/21	17:28	07:44	EQUIPMENT BLANK 1
ZZZZZZ	2E168571.D	05/13/21	17:58	08:14	(unrelated sample)
ZZZZZZ	2E168572.D	05/13/21	18:28	08:44	(unrelated sample)
ZZZZZZ	2E168573.D	05/13/21	18:58	09:14	(unrelated sample)
ZZZZZZ	2E168574.D	05/13/21	19:29	09:45	(unrelated sample)
ZZZZZZ	2E168575.D	05/13/21	19:59	10:15	(unrelated sample)
ZZZZZZ	2E168576.D	05/13/21	20:29	10:45	(unrelated sample)
JD24770-1R	2E168577R.D	05/13/21	20:59	11:15	PZ-23
ZZZZZZ	2E168577.D	05/13/21	20:59	11:15	(unrelated sample)
ZZZZZZ	2E168578.D	05/13/21	21:29	11:45	(unrelated sample)

5.6.3
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8436-BFB	Injection Date: 05/15/21
Lab File ID: 2E168589.D	Injection Time: 08:38
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18675	17.2	Pass
75	30.0 - 60.0% of mass 95	48629	44.7	Pass
95	Base peak, 100% relative abundance	108851	100.0	Pass
96	5.0 - 9.0% of mass 95	7260	6.67	Pass
173	Less than 2.0% of mass 174	637	0.59 (0.71) ^a	Pass
174	50.0 - 120.0% of mass 95	89936	82.6	Pass
175	5.0 - 9.0% of mass 174	6459	5.93 (7.18) ^a	Pass
176	95.0 - 101.0% of mass 174	88389	81.2 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	5982	5.50 (6.77) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8436-CC8308	2E168589.D	05/15/21	08:38	00:00	Continuing cal 20
V2E8436-BS	2E168590.D	05/15/21	09:16	00:38	Blank Spike
V2E8436-MB	2E168592.D	05/15/21	10:16	01:38	Method Blank
JD24770-6R	2E168593R.D	05/15/21	10:54	02:16	EQUIPMENT BLANK 2
ZZZZZZ	2E168593.D	05/15/21	10:54	02:16	(unrelated sample)
ZZZZZZ	2E168594.D	05/15/21	11:24	02:46	(unrelated sample)
JD24770-7R	2E168594R.D	05/15/21	11:24	02:46	EQUIPMENT BLANK 3
JD24770-3	2E168595.D	05/15/21	11:54	03:16	(used for QC only; not part of job JD24770R)
JD24770-3R	2E168595R.D	05/15/21	11:54	03:16	RX-12
JD24770-2	2E168596.D	05/15/21	12:24	03:46	(used for QC only; not part of job JD24770R)
ZZZZZZ	2E168597.D	05/15/21	12:54	04:16	(unrelated sample)
JD24770-2	2E168598.D	05/15/21	13:24	04:46	(used for QC only; not part of job JD24770R)
JD24770-2R	2E168598R.D	05/15/21	13:24	04:46	PZ-21
JD24770-4R	2E168599R.D	05/15/21	13:54	05:16	MW-204
ZZZZZZ	2E168599.D	05/15/21	13:54	05:16	(unrelated sample)
JD24770-2MS	2E168600.D	05/15/21	14:31	05:53	Matrix Spike
JD24770-3DUP	2E168602.D	05/15/21	15:32	06:54	Duplicate
ZZZZZZ	2E168603.D	05/15/21	16:01	07:23	(unrelated sample)
JD24770-8R	2E168603R.D	05/15/21	16:01	07:23	TWP-23
ZZZZZZ	2E168604.D	05/15/21	16:31	07:53	(unrelated sample)
JD24770-9R	2E168604R.D	05/15/21	16:31	07:53	TWP-25
JD24770-11R	2E168605R.D	05/15/21	17:01	08:23	TWP-26
ZZZZZZ	2E168605.D	05/15/21	17:01	08:23	(unrelated sample)
ZZZZZZ	2E168606.D	05/15/21	17:32	08:54	(unrelated sample)

5.6.4
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8436-BFB	Injection Date: 05/15/21
Lab File ID: 2E168589.D	Injection Time: 08:38
Instrument ID: GCMS2E	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD24770-12R	2E168606R.D	05/15/21	17:32	08:54	EW-601D
ZZZZZZ	2E168607.D	05/15/21	18:02	09:24	(unrelated sample)
JD24770-13R	2E168607R.D	05/15/21	18:02	09:24	EW-501
ZZZZZZ	2E168609.D	05/15/21	19:00	10:22	(unrelated sample)
ZZZZZZ	2E168611.D	05/15/21	19:57	11:19	(unrelated sample)
ZZZZZZ	2E168612.D	05/15/21	20:27	11:49	(unrelated sample)
JD24770-10R	2E168612R.D	05/15/21	20:27	11:49	PZ-16

5.6.4
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2E8438-BFB	Injection Date: 05/17/21
Lab File ID: 2E168625.D	Injection Time: 12:14
Instrument ID: GCMS2E	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21829	19.0	Pass
75	30.0 - 60.0% of mass 95	54221	47.1	Pass
95	Base peak, 100% relative abundance	115133	100.0	Pass
96	5.0 - 9.0% of mass 95	7552	6.56	Pass
173	Less than 2.0% of mass 174	565	0.49 (0.62) ^a	Pass
174	50.0 - 120.0% of mass 95	90920	79.0	Pass
175	5.0 - 9.0% of mass 174	6741	5.85 (7.41) ^a	Pass
176	95.0 - 101.0% of mass 174	87936	76.4 (96.7) ^a	Pass
177	5.0 - 9.0% of mass 176	5843	5.08 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8438-CC8308	2E168626.D	05/17/21	12:44	00:30	Continuing cal 20
V2E8438-BS	2E168628.D	05/17/21	13:51	01:37	Blank Spike
V2E8438-MB	2E168630.D	05/17/21	14:52	02:38	Method Blank
ZZZZZZ	2E168631.D	05/17/21	15:28	03:14	(unrelated sample)
ZZZZZZ	2E168632.D	05/17/21	15:58	03:44	(unrelated sample)
JD24770-15R	2E168633R.D	05/17/21	16:28	04:14	RX-03
JD24770-15	2E168633.D	05/17/21	16:28	04:14	(used for QC only; not part of job JD24770R)
JD24770-15MS	2E168634.D	05/17/21	16:58	04:44	Matrix Spike
JD24770-15MSD	2E168635.D	05/17/21	17:29	05:15	Matrix Spike Duplicate
ZZZZZZ	2E168636.D	05/17/21	17:59	05:45	(unrelated sample)
JD24770-18R	2E168638R.D	05/17/21	18:59	06:45	MW-35D
ZZZZZZ	2E168638.D	05/17/21	18:59	06:45	(unrelated sample)
JD24770-19R	2E168639R.D	05/17/21	19:29	07:15	MW-35
ZZZZZZ	2E168639.D	05/17/21	19:29	07:15	(unrelated sample)
ZZZZZZ	2E168640.D	05/17/21	19:59	07:45	(unrelated sample)
JD24770-20R	2E168640R.D	05/17/21	19:59	07:45	MW-36D
ZZZZZZ	2E168641.D	05/17/21	20:29	08:15	(unrelated sample)
JD24770-21R	2E168641R.D	05/17/21	20:29	08:15	PZ-18
JD24770-22R	2E168642R.D	05/17/21	20:59	08:45	PZ-17
ZZZZZZ	2E168642.D	05/17/21	20:59	08:45	(unrelated sample)
ZZZZZZ	2E168643.D	05/17/21	21:29	09:15	(unrelated sample)
JD24770-23R	2E168643R.D	05/17/21	21:29	09:15	MW-34
ZZZZZZ	2E168644.D	05/17/21	21:59	09:45	(unrelated sample)
ZZZZZZ	2E168646.D	05/17/21	22:59	10:45	(unrelated sample)

5.6.5
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9847-BFB	Injection Date: 05/13/21
Lab File ID: L329250.D	Injection Time: 20:49
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16150	20.6	Pass
75	30.0 - 60.0% of mass 95	39131	49.8	Pass
95	Base peak, 100% relative abundance	78568	100.0	Pass
96	5.0 - 9.0% of mass 95	5288	6.73	Pass
173	Less than 2.0% of mass 174	191	0.24 (0.30) ^a	Pass
174	50.0 - 120.0% of mass 95	64469	82.1	Pass
175	5.0 - 9.0% of mass 174	5079	6.46 (7.88) ^a	Pass
176	95.0 - 101.0% of mass 174	61475	78.2 (95.4) ^a	Pass
177	5.0 - 9.0% of mass 176	4556	5.80 (7.41) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9847-IC9847	L329251.D	05/13/21	21:15	00:26	Initial cal 0.2
VL9847-IC9847	L329252.D	05/13/21	21:42	00:53	Initial cal 0.5
VL9847-IC9847	L329253.D	05/13/21	22:09	01:20	Initial cal 1
VL9847-IC9847	L329254.D	05/13/21	22:36	01:47	Initial cal 2
VL9847-IC9847	L329255.D	05/13/21	23:03	02:14	Initial cal 4
VL9847-IC9847	L329256.D	05/13/21	23:30	02:41	Initial cal 8
VL9847-IC9847	L329257.D	05/13/21	23:57	03:08	Initial cal 20
VL9847-ICC9847	L329258.D	05/14/21	00:23	03:34	Initial cal 50
VL9847-IC9847	L329259.D	05/14/21	00:50	04:01	Initial cal 100
VL9847-IC9847	L329260.D	05/14/21	01:17	04:28	Initial cal 200
VL9847-ICV9847	L329263.D	05/14/21	02:38	05:49	Initial cal verification 50
VL9847-ICV9847	L329264.D	05/14/21	03:04	06:15	Initial cal verification 50

5.6.6

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9850-BFB	Injection Date: 05/16/21
Lab File ID: L329321.D	Injection Time: 09:59
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13819	20.9	Pass
75	30.0 - 60.0% of mass 95	33805	51.1	Pass
95	Base peak, 100% relative abundance	66219	100.0	Pass
96	5.0 - 9.0% of mass 95	4574	6.91	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	54931	83.0	Pass
175	5.0 - 9.0% of mass 174	4115	6.21 (7.49) ^a	Pass
176	95.0 - 101.0% of mass 174	53728	81.1 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	4042	6.10 (7.52) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9850-CC9847	L329321.D	05/16/21	09:59	00:00	Continuing cal 20
VL9850-BS	L329323.D	05/16/21	11:00	01:01	Blank Spike
VL9850-MB	L329325.D	05/16/21	11:54	01:55	Method Blank
JD24770-24R	L329326R.D	05/16/21	12:21	02:22	MW-34D
ZZZZZZ	L329326.D	05/16/21	12:21	02:22	(unrelated sample)
ZZZZZZ	L329327.D	05/16/21	12:48	02:49	(unrelated sample)
JD24770-25R	L329327R.D	05/16/21	12:48	02:49	PZ-9
JD24770-33	L329328.D	05/16/21	13:15	03:16	(used for QC only; not part of job JD24770R)
ZZZZZZ	L329329.D	05/16/21	13:43	03:44	(unrelated sample)
ZZZZZZ	L329330.D	05/16/21	14:09	04:10	(unrelated sample)
JD24770-33MS	L329331.D	05/16/21	14:36	04:37	Matrix Spike
JD24770-33MSD	L329332.D	05/16/21	15:03	05:04	Matrix Spike Duplicate
ZZZZZZ	L329333.D	05/16/21	15:30	05:31	(unrelated sample)
ZZZZZZ	L329334.D	05/16/21	15:57	05:58	(unrelated sample)
JD24770-36R	L329334R.D	05/16/21	15:57	05:58	TRIP BLANK 01
JD24770-26R	L329335R.D	05/16/21	16:24	06:25	PZ-10
ZZZZZZ	L329335.D	05/16/21	16:24	06:25	(unrelated sample)
JD24770-27R	L329336R.D	05/16/21	16:51	06:52	MW-208
ZZZZZZ	L329336.D	05/16/21	16:51	06:52	(unrelated sample)
JD24770-32R	L329337R.D	05/16/21	17:17	07:18	RX-28
ZZZZZZ	L329337.D	05/16/21	17:17	07:18	(unrelated sample)
ZZZZZZ	L329338.D	05/16/21	17:44	07:45	(unrelated sample)
JD24770-35R	L329338R.D	05/16/21	17:44	07:45	RX-19
ZZZZZZ	L329339.D	05/16/21	18:11	08:12	(unrelated sample)

5.6.7
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample:	VL9850-BFB	Injection Date:	05/16/21
Lab File ID:	L329321.D	Injection Time:	09:59
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD24770-28R	L329339R.D	05/16/21	18:11	08:12	MW-111
ZZZZZZ	L329341.D	05/16/21	19:05	09:06	(unrelated sample)
JD24770-38R	L329341R.D	05/16/21	19:05	09:06	EW-403
ZZZZZZ	L329342.D	05/16/21	19:32	09:33	(unrelated sample)
JD24770-39R	L329342R.D	05/16/21	19:32	09:33	MW-101
ZZZZZZ	L329343.D	05/16/21	19:58	09:59	(unrelated sample)
JD24770-34R	L329343R.D	05/16/21	19:58	09:59	EW-404
ZZZZZZ	L329344.D	05/16/21	20:25	10:26	(unrelated sample)
ZZZZZZ	L329345.D	05/16/21	20:52	10:53	(unrelated sample)
ZZZZZZ	L329346.D	05/16/21	21:19	11:20	(unrelated sample)
JD24770-30R	L329346R.D	05/16/21	21:19	11:20	RX-20

5.6.7
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9851-BFB	Injection Date: 05/16/21
Lab File ID: L329348.D	Injection Time: 22:13
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14691	20.7	Pass
75	30.0 - 60.0% of mass 95	35387	49.9	Pass
95	Base peak, 100% relative abundance	70875	100.0	Pass
96	5.0 - 9.0% of mass 95	4393	6.20	Pass
173	Less than 2.0% of mass 174	251	0.35 (0.43) ^a	Pass
174	50.0 - 120.0% of mass 95	57704	81.4	Pass
175	5.0 - 9.0% of mass 174	4623	6.52 (8.01) ^a	Pass
176	95.0 - 101.0% of mass 174	57048	80.5 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	3711	5.24 (6.51) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9851-CC9847	L329348.D	05/16/21	22:13	00:00	Continuing cal 50
VL9851-BS	L329350.D	05/16/21	23:06	00:53	Blank Spike
VL9851-MB	L329352.D	05/17/21	00:00	01:47	Method Blank
JD24770-40R	L329353R.D	05/17/21	00:27	02:14	RX-01
JD24770-40	L329353.D	05/17/21	00:27	02:14	(used for QC only; not part of job JD24770R)
JD24770-40MS	L329354.D	05/17/21	00:54	02:41	Matrix Spike
JD24770-40MSD	L329355.D	05/17/21	01:21	03:08	Matrix Spike Duplicate
ZZZZZZ	L329357.D	05/17/21	02:15	04:02	(unrelated sample)
ZZZZZZ	L329358.D	05/17/21	02:41	04:28	(unrelated sample)
ZZZZZZ	L329359.D	05/17/21	03:08	04:55	(unrelated sample)
ZZZZZZ	L329360.D	05/17/21	03:35	05:22	(unrelated sample)
ZZZZZZ	L329361.D	05/17/21	04:02	05:49	(unrelated sample)
ZZZZZZ	L329362.D	05/17/21	04:29	06:16	(unrelated sample)
ZZZZZZ	L329363.D	05/17/21	04:56	06:43	(unrelated sample)
ZZZZZZ	L329364.D	05/17/21	05:23	07:10	(unrelated sample)
ZZZZZZ	L329365.D	05/17/21	05:50	07:37	(unrelated sample)
ZZZZZZ	L329366.D	05/17/21	06:16	08:03	(unrelated sample)
ZZZZZZ	L329367.D	05/17/21	06:43	08:30	(unrelated sample)
JD24770-37R	L329368R.D	05/17/21	07:10	08:57	MW-408A
ZZZZZZ	L329368.D	05/17/21	07:10	08:57	(unrelated sample)
ZZZZZZ	L329369.D	05/17/21	07:37	09:24	(unrelated sample)
ZZZZZZ	L329370.D	05/17/21	08:04	09:51	(unrelated sample)
JD24770-41R	L329370R.D	05/17/21	08:04	09:51	RX-05
ZZZZZZ	L329371.D	05/17/21	08:31	10:18	(unrelated sample)

5.6.8

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9851-BFB	Injection Date: 05/16/21
Lab File ID: L329348.D	Injection Time: 22:13
Instrument ID: GCMSL	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD24770-42R	L329371R.D	05/17/21	08:31	10:18	RX-07
ZZZZZZ	L329372.D	05/17/21	08:58	10:45	(unrelated sample)
JD24770-43R	L329372R.D	05/17/21	08:58	10:45	RX-13

5.6.8
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9854-BFB	Injection Date: 05/18/21
Lab File ID: L329428.D	Injection Time: 10:16
Instrument ID: GCMSL	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14804	20.7	Pass
75	30.0 - 60.0% of mass 95	35747	49.9	Pass
95	Base peak, 100% relative abundance	71685	100.0	Pass
96	5.0 - 9.0% of mass 95	4348	6.07	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56331	78.6	Pass
175	5.0 - 9.0% of mass 174	4547	6.34 (8.07) ^a	Pass
176	95.0 - 101.0% of mass 174	55112	76.9 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	3712	5.18 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL9854-CC9847	L329428.D	05/18/21	10:16	00:00	Continuing cal 20
VL9854-BS	L329430.D	05/18/21	11:17	01:01	Blank Spike
VL9854-MB	L329432.D	05/18/21	12:11	01:55	Method Blank
JD24981-1	L329433.D	05/18/21	12:38	02:22	(used for QC only; not part of job JD24770R)
ZZZZZZ	L329434.D	05/18/21	13:05	02:49	(unrelated sample)
ZZZZZZ	L329435.D	05/18/21	13:32	03:16	(unrelated sample)
ZZZZZZ	L329436.D	05/18/21	13:59	03:43	(unrelated sample)
JD24770-33R	L329436R.D	05/18/21	13:59	03:43	MW-109
ZZZZZZ	L329437.D	05/18/21	14:26	04:10	(unrelated sample)
JD24770-31R	L329438R.D	05/18/21	14:52	04:36	MW-33
ZZZZZZ	L329438.D	05/18/21	14:52	04:36	(unrelated sample)
ZZZZZZ	L329439.D	05/18/21	15:19	05:03	(unrelated sample)
ZZZZZZ	L329440.D	05/18/21	15:46	05:30	(unrelated sample)
JD24981-1MS	L329441.D	05/18/21	16:13	05:57	Matrix Spike
JD24981-1MSD	L329442.D	05/18/21	16:40	06:24	Matrix Spike Duplicate
ZZZZZZ	L329445.D	05/18/21	18:01	07:45	(unrelated sample)
JD24770-29R	L329445R.D	05/18/21	18:01	07:45	MW-106
ZZZZZZ	L329446.D	05/18/21	18:28	08:12	(unrelated sample)
ZZZZZZ	L329447.D	05/18/21	18:55	08:39	(unrelated sample)
ZZZZZZ	L329448.D	05/18/21	19:22	09:06	(unrelated sample)
ZZZZZZ	L329449.D	05/18/21	19:49	09:33	(unrelated sample)
ZZZZZZ	L329450.D	05/18/21	20:15	09:59	(unrelated sample)
ZZZZZZ	L329451.D	05/18/21	20:42	10:26	(unrelated sample)
JD24770-44R	L329452R.D	05/18/21	21:09	10:53	DUP 01

5.6.9
 5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VL9854-BFB	Injection Date: 05/18/21
Lab File ID: L329428.D	Injection Time: 10:16
Instrument ID: GCMSL	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L329452.D	05/18/21	21:09	10:53	(unrelated sample)
JD24770-46R	L329453R.D	05/18/21	21:36	11:20	DUP 03
ZZZZZZ	L329453.D	05/18/21	21:36	11:20	(unrelated sample)
ZZZZZZ	L329454.D	05/18/21	22:03	11:47	(unrelated sample)
JD24770-45R	L329454R.D	05/18/21	22:03	11:47	DUP 02

5.6.9
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8211-BFB	Injection Date: 03/31/21
Lab File ID: X189841.D	Injection Time: 16:38
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17013	19.1	Pass
75	30.0 - 60.0% of mass 95	43258	48.6	Pass
95	Base peak, 100% relative abundance	88922	100.0	Pass
96	5.0 - 9.0% of mass 95	5859	6.59	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	85728	96.4	Pass
175	5.0 - 9.0% of mass 174	6632	7.46 (7.74) ^a	Pass
176	95.0 - 101.0% of mass 174	83293	93.7 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	5500	6.19 (6.60) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8211-IC8211	X189842.D	03/31/21	17:15	00:37	Initial cal 0.2
VX8211-IC8211	X189843.D	03/31/21	17:44	01:06	Initial cal 0.5
VX8211-IC8211	X189844.D	03/31/21	18:12	01:34	Initial cal 1
VX8211-IC8211	X189845.D	03/31/21	18:41	02:03	Initial cal 2
VX8211-IC8211	X189846.D	03/31/21	19:10	02:32	Initial cal 4
VX8211-IC8211	X189847.D	03/31/21	19:39	03:01	Initial cal 8
VX8211-IC8211	X189848.D	03/31/21	20:07	03:29	Initial cal 20
VX8211-ICC8211	X189849.D	03/31/21	20:36	03:58	Initial cal 50
VX8211-IC8211	X189850.D	03/31/21	21:05	04:27	Initial cal 100
VX8211-IC8211	X189851.D	03/31/21	21:34	04:56	Initial cal 200
VX8211-ICV8211	X189854.D	03/31/21	22:59	06:21	Initial cal verification 50
VX8211-ICV8211	X189855.D	03/31/21	23:28	06:50	Initial cal verification 50

5.6.10
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8211-BFB2	Injection Date: 04/01/21
Lab File ID: X189857.D	Injection Time: 11:57
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	19106	19.9	Pass
75	30.0 - 60.0% of mass 95	46824	48.8	Pass
95	Base peak, 100% relative abundance	95965	100.0	Pass
96	5.0 - 9.0% of mass 95	6370	6.64	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	87824	91.5	Pass
175	5.0 - 9.0% of mass 174	6809	7.10 (7.75) ^a	Pass
176	95.0 - 101.0% of mass 174	84776	88.3 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	5832	6.08 (6.88) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8211-ICV8211	X189858.D	04/01/21	12:41	00:44	Initial cal verification 50

5.6.11
5

Instrument Performance Check (BFB)

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VX8261-BFB	Injection Date: 05/18/21
Lab File ID: X190906.D	Injection Time: 07:41
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16059	20.5	Pass
75	30.0 - 60.0% of mass 95	36992	47.2	Pass
95	Base peak, 100% relative abundance	78360	100.0	Pass
96	5.0 - 9.0% of mass 95	5352	6.83	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	71379	91.1	Pass
175	5.0 - 9.0% of mass 174	5955	7.60 (8.34) ^a	Pass
176	95.0 - 101.0% of mass 174	70445	89.9 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4874	6.22 (6.92) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX8261-CC8211	X190906.D	05/18/21	07:41	00:00	Continuing cal 20
VX8261-BS	X190908.D	05/18/21	08:47	01:06	Blank Spike
VX8261-MB	X190910.D	05/18/21	09:44	02:03	Method Blank
JD24665-5	X190911.D	05/18/21	10:33	02:52	(used for QC only; not part of job JD24770R)
ZZZZZZ	X190912.D	05/18/21	11:01	03:20	(unrelated sample)
ZZZZZZ	X190913.D	05/18/21	11:30	03:49	(unrelated sample)
JD24770-14R	X190914R.D	05/18/21	11:58	04:17	MW-401B
ZZZZZZ	X190914.D	05/18/21	11:58	04:17	(unrelated sample)
ZZZZZZ	X190915.D	05/18/21	12:27	04:46	(unrelated sample)
ZZZZZZ	X190916.D	05/18/21	12:56	05:15	(unrelated sample)
ZZZZZZ	X190917.D	05/18/21	13:25	05:44	(unrelated sample)
ZZZZZZ	X190918.D	05/18/21	13:53	06:12	(unrelated sample)
JD24770-17R	X190918R.D	05/18/21	13:53	06:12	MW-206B
ZZZZZZ	X190919.D	05/18/21	14:22	06:41	(unrelated sample)
ZZZZZZ	X190920.D	05/18/21	15:58	08:17	(unrelated sample)
ZZZZZZ	X190921.D	05/18/21	16:27	08:46	(unrelated sample)
JD24770-16R	X190921R.D	05/18/21	16:27	08:46	PZ-20
JD24665-5MS	X190922.D	05/18/21	16:55	09:14	Matrix Spike
JD24665-5MSD	X190923.D	05/18/21	17:24	09:43	Matrix Spike Duplicate
ZZZZZZ	X190925.D	05/18/21	18:21	10:40	(unrelated sample)
ZZZZZZ	X190926.D	05/18/21	18:50	11:09	(unrelated sample)
ZZZZZZ	X190927.D	05/18/21	19:18	11:37	(unrelated sample)

5.6.12
5

Surrogate Recovery Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD24770-1R	2E168577R.D	99	92	96	93
JD24770-2R	2E168598R.D	100	96	96	90
JD24770-3R	2E168595R.D	99	95	97	91
JD24770-4R	2E168599R.D	99	95	97	89
JD24770-5R	2E168570R.D	96	89	96	90
JD24770-6R	2E168593R.D	97	92	96	90
JD24770-7R	2E168594R.D	100	95	97	91
JD24770-8R	2E168603R.D	99	95	96	91
JD24770-9R	2E168604R.D	98	94	96	89
JD24770-10R	2E168612R.D	100	96	96	91
JD24770-11R	2E168605R.D	99	95	97	90
JD24770-12R	2E168606R.D	100	96	97	91
JD24770-13R	2E168607R.D	99	94	96	91
JD24770-14R	X190914R.D	112	106	99	91
JD24770-15R	2E168633R.D	106	106	98	95
JD24770-16R	X190921R.D	115	106	100	88
JD24770-17R	X190918R.D	114	104	102	90
JD24770-18R	2E168638R.D	104	106	98	95
JD24770-19R	2E168639R.D	104	104	98	94
JD24770-20R	2E168640R.D	106	107	98	96
JD24770-21R	2E168641R.D	106	105	98	96
JD24770-22R	2E168642R.D	106	108	97	96
JD24770-23R	2E168643R.D	106	108	97	97
JD24770-24R	L329326R.D	99	108	106	97
JD24770-25R	L329327R.D	97	103	105	99
JD24770-26R	L329335R.D	100	107	106	100
JD24770-27R	L329336R.D	100	104	104	98
JD24770-28R	L329339R.D	100	105	106	97
JD24770-29R	L329445R.D	101	101	101	94
JD24770-30R	L329346R.D	102	107	107	99
JD24770-31R	L329438R.D	100	108	107	98
JD24770-32R	L329337R.D	99	104	107	97
JD24770-33R	L329436R.D	101	106	104	98
JD24770-34R	L329343R.D	98	104	109	98
JD24770-35R	L329338R.D	102	103	107	99
JD24770-36R	L329334R.D	97	105	104	99
JD24770-37R	L329368R.D	97	106	104	99
JD24770-38R	L329341R.D	103	104	103	94
JD24770-39R	L329342R.D	98	103	109	96
JD24770-40R	L329353R.D	97	101	110	98

5.7.1
5

Surrogate Recovery Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD24770-41R	L329370R.D	98	105	103	100
JD24770-42R	L329371R.D	97	104	108	98
JD24770-43R	L329372R.D	99	103	108	98
JD24770-44R	L329452R.D	99	107	106	97
JD24770-45R	L329454R.D	98	107	108	96
JD24770-46R	L329453R.D	101	107	108	99
JD24665-5MS	X190922.D	111	105	104	88
JD24665-5MSD	X190923.D	110	105	104	91
JD24717-1DUP	2E168568.D	100	91	97	94
JD24717-3MS	2E168566.D	99	87	97	91
JD24770-15MS	2E168634.D	107	105	98	92
JD24770-15MSD	2E168635.D	107	103	98	93
JD24770-2MS	2E168600.D	101	94	97	89
JD24770-33MS	L329331.D	100	98	95	102
JD24770-33MSD	L329332.D	102	100	96	101
JD24770-3DUP	2E168602.D	99	94	96	91
JD24770-40MS	L329354.D	100	99	97	99
JD24770-40MSD	L329355.D	102	101	95	101
JD24981-1MS	L329441.D	102	104	96	99
JD24981-1MSD	L329442.D	102	103	94	102
V2E8433-BS	2E168557.D	99	88	98	90
V2E8433-MB	2E168559.D	97	89	95	91
V2E8436-BS	2E168590.D	100	94	97	89
V2E8436-MB	2E168592.D	98	93	96	90
V2E8438-BS	2E168628.D	106	102	98	91
V2E8438-MB	2E168630.D	104	102	97	94
VL9850-BS	L329323.D	100	101	95	101
VL9850-MB	L329325.D	99	104	106	99
VL9851-BS	L329350.D	100	102	99	98
VL9851-MB	L329352.D	102	105	106	99
VL9854-BS	L329430.D	99	99	97	101
VL9854-MB	L329432.D	99	109	106	98
VX8261-BS	X190908.D	111	102	104	90
VX8261-MB	X190910.D	113	103	98	91

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%

5.7.1
5

Surrogate Recovery Summary

Job Number: JD24770R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

5.7.1
5

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/53/873 ORG 1116

SGS Job Number: JD29967

Sampling Dates: 08/10/21 - 08/11/21



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Total number of pages in report: **107**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: JD29967

BASF, 55 Crowley Road, Lewiston, ME
 Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD29967-1	08/10/21	12:00	PSC	08/12/21	AQ	Ground Water	MW-35D
JD29967-2	08/10/21	12:45	PSC	08/12/21	AQ	Ground Water	MW-36D
JD29967-3	08/10/21	13:20	PSC	08/12/21	AQ	Ground Water	PZ-18
JD29967-4	08/10/21	14:30	PSC	08/12/21	AQ	Ground Water	MW-34D
JD29967-5	08/10/21	15:10	PSC	08/12/21	AQ	Ground Water	TWP-26
JD29967-6	08/11/21	08:50	PSC	08/12/21	AQ	Ground Water	PZ-16
JD29967-7	08/11/21	09:35	PSC	08/12/21	AQ	Ground Water	TWP-23
JD29967-8	08/11/21	10:25	PSC	08/12/21	AQ	Ground Water	TWP-22
JD29967-9	08/11/21	11:10	PSC	08/12/21	AQ	Ground Water	TWP-25
JD29967-10	08/11/21	11:50	PSC	08/12/21	AQ	Ground Water	TWP-20
JD29967-11	08/11/21	13:05	PSC	08/12/21	AQ	Trip Blank Water	TRIP BLANK
JD29967-12	08/10/21	15:05	BD	08/12/21	AQ	Ground Water	EW-501



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD29967

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD29967-13	08/10/21	14:15 BD	08/12/21	AQ	Ground Water	EW-601D
JD29967-14	08/11/21	13:05 BD	08/12/21	AQ	Ground Water	MW-102A
JD29967-15	08/10/21	13:10 BD	08/12/21	AQ	Ground Water	MW-406A
JD29967-16	08/10/21	15:50 BD	08/12/21	AQ	Ground Water	MW-408A
JD29967-17	08/10/21	13:30 BD	08/12/21	AQ	Ground Water	PZ-9
JD29967-18	08/11/21	09:05 BD	08/12/21	AQ	Ground Water	RX-28
JD29967-19	08/11/21	09:05 BD	08/12/21	AQ	Ground Water	DUP01
JD29967-20	08/11/21	11:32 BD	08/12/21	AQ	Ground Water	TWP-21
JD29967-21	08/11/21	10:48 BD	08/12/21	AQ	Ground Water	TWP-24
JD29967-22	08/11/21	12:45 PSC	08/12/21	AQ	Equipment Blank	EQUIPMENT BLANK

Summary of Hits

Job Number: JD29967
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 08/10/21 thru 08/11/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD29967-1 MW-35D

Carbon disulfide	6.9	2.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	31.0	1.0		ug/l	SW846 8260D
Tetrachloroethene	13.2	1.0		ug/l	SW846 8260D
Trichloroethene	4.4	1.0		ug/l	SW846 8260D

JD29967-2 MW-36D

No hits reported in this sample.

JD29967-3 PZ-18

No hits reported in this sample.

JD29967-4 MW-34D

cis-1,2-Dichloroethene	1.6	1.0		ug/l	SW846 8260D
Tetrachloroethene	53.5	1.0		ug/l	SW846 8260D
Trichloroethene	58.9	1.0		ug/l	SW846 8260D

JD29967-5 TWP-26

cis-1,2-Dichloroethene	2.4	1.0		ug/l	SW846 8260D
Tetrachloroethene	57.3	1.0		ug/l	SW846 8260D
Trichloroethene	186	1.0		ug/l	SW846 8260D

JD29967-6 PZ-16

cis-1,2-Dichloroethene	1.4	1.0		ug/l	SW846 8260D
Tetrachloroethene	108	1.0		ug/l	SW846 8260D
Trichloroethene	192	1.0		ug/l	SW846 8260D

JD29967-7 TWP-23

No hits reported in this sample.

JD29967-8 TWP-22

Tetrachloroethene	198	1.0		ug/l	SW846 8260D
Trichloroethene	176	5.0		ug/l	SW846 8260D

JD29967-9 TWP-25

cis-1,2-Dichloroethene	1.4	1.0		ug/l	SW846 8260D
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Summary of Hits

Job Number: JD29967
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 08/10/21 thru 08/11/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Tetrachloroethene		24.9	1.0		ug/l	SW846 8260D
Trichloroethene		107	1.0		ug/l	SW846 8260D

JD29967-10 TWP-20

cis-1,2-Dichloroethene		2.6	1.0		ug/l	SW846 8260D
Tetrachloroethene		34.3	1.0		ug/l	SW846 8260D
Trichloroethene		101	1.0		ug/l	SW846 8260D

JD29967-11 TRIP BLANK

No hits reported in this sample.

JD29967-12 EW-501

cis-1,2-Dichloroethene		2.1	1.0		ug/l	SW846 8260D
Tetrachloroethene		7.6	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane		4.8	1.0		ug/l	SW846 8260D
Trichloroethene		3.7	1.0		ug/l	SW846 8260D

JD29967-13 EW-601D

No hits reported in this sample.

JD29967-14 MW-102A

No hits reported in this sample.

JD29967-15 MW-406A

No hits reported in this sample.

JD29967-16 MW-408A

cis-1,2-Dichloroethene		3.1	1.0		ug/l	SW846 8260D
Tetrachloroethene		3.5	1.0		ug/l	SW846 8260D
Trichloroethene		44.8	1.0		ug/l	SW846 8260D

JD29967-17 PZ-9

cis-1,2-Dichloroethene		4.1	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene		5.1	1.0		ug/l	SW846 8260D
Trichloroethene		87.4	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JD29967
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 08/10/21 thru 08/11/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JD29967-18 RX-28

Tetrachloroethene	183	10		ug/l	SW846 8260D
Trichloroethene	124	1.0		ug/l	SW846 8260D

JD29967-19 DUP01

Tetrachloroethene	195	1.0		ug/l	SW846 8260D
Trichloroethene	116	1.0		ug/l	SW846 8260D

JD29967-20 TWP-21

cis-1,2-Dichloroethene	1.9	1.0		ug/l	SW846 8260D
Tetrachloroethene	24.7	1.0		ug/l	SW846 8260D
Trichloroethene	69.6	1.0		ug/l	SW846 8260D

JD29967-21 TWP-24

cis-1,2-Dichloroethene	2.0	1.0		ug/l	SW846 8260D
Tetrachloroethene	26.1	1.0		ug/l	SW846 8260D
Trichloroethene	152	1.0		ug/l	SW846 8260D

JD29967-22 EQUIPMENT BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-35D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-1		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177942.D	1	08/20/21 13:25	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	6.9	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	31.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-1		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	13.2	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-1		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-2		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177943.D	1	08/20/21 13:54	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-2		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-2		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		Date Sampled: 08/10/21
Lab Sample ID: JD29967-3		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177944.D	1	08/20/21 14:24	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-18	Date Sampled:	08/10/21
Lab Sample ID:	JD29967-3	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		Date Sampled: 08/10/21
Lab Sample ID: JD29967-3		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-4		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177945.D	1	08/20/21 14:54	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34D	Date Sampled:	08/10/21
Lab Sample ID:	JD29967-4	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	53.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	58.9	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D	
Lab Sample ID: JD29967-4	Date Sampled: 08/10/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 08/10/21
Lab Sample ID: JD29967-5		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177946.D	1	08/20/21 15:23	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 08/10/21
Lab Sample ID: JD29967-5		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	57.3	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	186	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 08/10/21
Lab Sample ID: JD29967-5		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 08/11/21
Lab Sample ID: JD29967-6		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177957.D	1	08/20/21 20:49	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 08/11/21
Lab Sample ID: JD29967-6		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	108	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	192	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 08/11/21
Lab Sample ID: JD29967-6		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23		Date Sampled: 08/11/21
Lab Sample ID: JD29967-7		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177958.D	1	08/20/21 21:19	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23		Date Sampled: 08/11/21
Lab Sample ID: JD29967-7		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-23	
Lab Sample ID: JD29967-7	Date Sampled: 08/11/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-22		Date Sampled: 08/11/21
Lab Sample ID: JD29967-8		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177959.D	1	08/20/21 21:48	EH	n/a	n/a	VV7518
Run #2	V177973.D	5	08/21/21 13:50	EH	n/a	n/a	VV7519

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP-22	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-8	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	198	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	176 ^b	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^c	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	100%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-22		Date Sampled: 08/11/21
Lab Sample ID: JD29967-8		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	102%	80-121%
2037-26-5	Toluene-D8	97%	96%	80-120%
460-00-4	4-Bromofluorobenzene	92%	91%	80-120%

- (a) Associated CCV outside of control limits low.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 08/11/21
Lab Sample ID: JD29967-9		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177980.D	1	08/21/21 17:17	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP-25	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-9	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	24.9	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	107	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 08/11/21
Lab Sample ID: JD29967-9		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-20		
Lab Sample ID: JD29967-10		Date Sampled: 08/11/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177981.D	1	08/21/21 17:47	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP-20	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-10	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	34.3	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	101	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-20		Date Sampled: 08/11/21
Lab Sample ID: JD29967-10		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK		Date Sampled: 08/11/21
Lab Sample ID: JD29967-11		Date Received: 08/12/21
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177950.D	1	08/20/21 17:21	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-11	Date Received:	08/12/21
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK	
Lab Sample ID: JD29967-11	Date Sampled: 08/11/21
Matrix: AQ - Trip Blank Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501		Date Sampled: 08/10/21
Lab Sample ID: JD29967-12		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V177951.D	1	08/20/21 17:51	EH	n/a	n/a	VV7518

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-501	Date Sampled:	08/10/21
Lab Sample ID:	JD29967-12	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	7.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	4.8	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	3.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501		Date Sampled: 08/10/21
Lab Sample ID: JD29967-12		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	92%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-13		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177952.D	1	08/20/21 18:21	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		Date Sampled: 08/10/21
Lab Sample ID: JD29967-13		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D	
Lab Sample ID: JD29967-13	Date Sampled: 08/10/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-102A		Date Sampled: 08/11/21
Lab Sample ID: JD29967-14		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177953.D	1	08/20/21 18:51	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-102A		Date Sampled: 08/11/21
Lab Sample ID: JD29967-14		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-102A	
Lab Sample ID: JD29967-14	Date Sampled: 08/11/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-406A		Date Sampled: 08/10/21
Lab Sample ID: JD29967-15		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177954.D	1	08/20/21 19:21	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-406A		Date Sampled: 08/10/21
Lab Sample ID: JD29967-15		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-406A	
Lab Sample ID: JD29967-15	Date Sampled: 08/10/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	92%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A		
Lab Sample ID: JD29967-16		Date Sampled: 08/10/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177955.D	1	08/20/21 19:50	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A		Date Sampled: 08/10/21
Lab Sample ID: JD29967-16		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	3.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	44.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A	
Lab Sample ID: JD29967-16	Date Sampled: 08/10/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		
Lab Sample ID: JD29967-17		Date Sampled: 08/10/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177956.D	1	08/20/21 20:20	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.1	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		Date Sampled: 08/10/21
Lab Sample ID: JD29967-17		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	87.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate ^b	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9		Date Sampled: 08/10/21
Lab Sample ID: JD29967-17		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

- (a) Associated CCV outside of control limits low.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28		Date Sampled: 08/11/21
Lab Sample ID: JD29967-18		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177985.D	1	08/21/21 19:44	EH	n/a	n/a	VV7519
Run #2	V177979.D	10	08/21/21 16:48	EH	n/a	n/a	VV7519

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-28	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-18	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	183 ^b	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	124	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28		Date Sampled: 08/11/21
Lab Sample ID: JD29967-18		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	106%	80-121%
2037-26-5	Toluene-D8	97%	96%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	80-120%

(a) Associated CCV outside of control limits low.

(b) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP01		Date Sampled: 08/11/21
Lab Sample ID: JD29967-19		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177984.D	1	08/21/21 19:15	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP01	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-19	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	195	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	116	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP01		Date Sampled: 08/11/21
Lab Sample ID: JD29967-19		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-21		Date Sampled: 08/11/21
Lab Sample ID: JD29967-20		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177982.D	1	08/21/21 18:16	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP-21	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-20	Date Received:	08/12/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	24.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	69.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-21		Date Sampled: 08/11/21
Lab Sample ID: JD29967-20		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	91%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-24		Date Sampled: 08/11/21
Lab Sample ID: JD29967-21		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177983.D	1	08/21/21 18:45	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-24		Date Sampled: 08/11/21
Lab Sample ID: JD29967-21		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	26.1	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	152	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-24		Date Sampled: 08/11/21
Lab Sample ID: JD29967-21		Date Received: 08/12/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-22	Date Received:	08/12/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177975.D	1	08/21/21 14:50	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK) ^a	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	08/11/21
Lab Sample ID:	JD29967-22	Date Received:	08/12/21
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride ^a	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK	
Lab Sample ID: JD29967-22	Date Sampled: 08/11/21
Matrix: AQ - Equipment Blank	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		80-121%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2236 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsus

FED-EX Tracking #
Bottle Order Control # TF0542042
SGS Quote # GES MA #11905-00
SGS Job # JD 29967

Client / Reporting Information, Project Information, Requested Analysis, Lab Sample #, Date, Time, Matrix, # of bottles, Data Deliverable Information, Approved by (SGS Project Manager), Date, Data Deliverable Information, Comments / Special Instructions, Sample Custody must be documented below each time samples change possession, including courier delivery.

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JD29967: Chain of Custody

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SGS Sample Receipt Summary

Job Number: JD29967

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 8/12/2021 6:00:00 PM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.2);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	_____		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 212820	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD29967: Chain of Custody

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MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-MB	V177940.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

5.1.1
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Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-MB	V177940.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-MB	V177940.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 85-118%
17060-07-0	1,2-Dichloroethane-D4	101% 80-121%
2037-26-5	Toluene-D8	100% 80-120%
460-00-4	4-Bromofluorobenzene	94% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-MB	V177966.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-MB	V177966.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-MB	V177966.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 85-118%
17060-07-0	1,2-Dichloroethane-D4	102% 80-121%
2037-26-5	Toluene-D8	96% 80-120%
460-00-4	4-Bromofluorobenzene	92% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-BS	V177938.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	137	69	63-137
71-43-2	Benzene	50	47.6	95	78-117
108-86-1	Bromobenzene	50	45.7	91	82-121
74-97-5	Bromochloromethane	50	46.0	92	83-124
75-27-4	Bromodichloromethane	50	46.4	93	83-123
75-25-2	Bromoform	50	48.6	97	80-140
74-83-9	Bromomethane	50	39.5	79	26-167
78-93-3	2-Butanone (MEK)	200	175	88	73-135
104-51-8	n-Butylbenzene	50	52.6	105	78-126
135-98-8	sec-Butylbenzene	50	51.1	102	78-122
98-06-6	tert-Butylbenzene	50	50.1	100	77-122
75-15-0	Carbon disulfide	50	44.5	89	60-131
56-23-5	Carbon tetrachloride	50	48.5	97	75-127
108-90-7	Chlorobenzene	50	48.2	96	83-115
75-00-3	Chloroethane	50	43.7	87	61-135
67-66-3	Chloroform	50	40.5	81	76-118
74-87-3	Chloromethane	50	44.0	88	46-144
95-49-8	o-Chlorotoluene	50	47.4	95	80-120
106-43-4	p-Chlorotoluene	50	47.3	95	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	46.6	93	75-135
124-48-1	Dibromochloromethane	50	46.4	93	84-128
106-93-4	1,2-Dibromoethane	50	45.2	90	82-129
95-50-1	1,2-Dichlorobenzene	50	47.9	96	85-117
541-73-1	1,3-Dichlorobenzene	50	47.7	95	83-116
106-46-7	1,4-Dichlorobenzene	50	47.5	95	82-115
75-71-8	Dichlorodifluoromethane	50	53.4	107	49-153
75-34-3	1,1-Dichloroethane	50	45.5	91	75-122
107-06-2	1,2-Dichloroethane	50	45.8	92	74-116
75-35-4	1,1-Dichloroethene	50	47.1	94	68-129
156-59-2	cis-1,2-Dichloroethene	50	45.8	92	78-120
156-60-5	trans-1,2-Dichloroethene	50	44.3	89	74-125
78-87-5	1,2-Dichloropropane	50	49.0	98	80-120
142-28-9	1,3-Dichloropropane	50	45.9	92	82-116
594-20-7	2,2-Dichloropropane	50	48.2	96	70-128
563-58-6	1,1-Dichloropropene	50	47.9	96	75-121
10061-01-5	cis-1,3-Dichloropropene	50	48.2	96	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-BS	V177938.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	48.2	96	84-124
100-41-4	Ethylbenzene	50	49.3	99	80-115
87-68-3	Hexachlorobutadiene	50	54.8	110	68-137
591-78-6	2-Hexanone	200	187	94	74-132
74-88-4	Iodomethane	50	45.1	90	10-200
98-82-8	Isopropylbenzene	50	52.0	104	79-120
99-87-6	p-Isopropyltoluene	50	51.4	103	80-122
1634-04-4	Methyl Tert Butyl Ether	50	42.7	85	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	192	96	77-129
74-95-3	Methylene bromide	50	45.9	92	83-121
75-09-2	Methylene chloride	50	40.8	82	74-125
91-20-3	Naphthalene	50	47.9	96	73-138
103-65-1	n-Propylbenzene	50	47.1	94	78-117
100-42-5	Styrene	50	53.8	108	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	49.2	98	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	44.3	89	78-122
127-18-4	Tetrachloroethene	50	50.9	102	75-125
108-88-3	Toluene	50	47.5	95	80-115
87-61-6	1,2,3-Trichlorobenzene	50	48.4	97	73-140
120-82-1	1,2,4-Trichlorobenzene	50	49.7	99	77-137
71-55-6	1,1,1-Trichloroethane	50	47.1	94	77-124
79-00-5	1,1,2-Trichloroethane	50	45.4	91	83-118
79-01-6	Trichloroethene	50	47.0	94	80-123
75-69-4	Trichlorofluoromethane	50	50.7	101	71-134
96-18-4	1,2,3-Trichloropropane	50	42.8	86	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.7	99	81-119
108-67-8	1,3,5-Trimethylbenzene	50	49.1	98	79-120
108-05-4	Vinyl Acetate	50	64.4	129	77-131
75-01-4	Vinyl chloride	50	46.1	92	56-138
	m,p-Xylene	100	101	101	81-118
95-47-6	o-Xylene	50	50.6	101	81-119
1330-20-7	Xylene (total)	150	152	101	81-118

* = Outside of Control Limits.

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Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-BS	V177938.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-BS	V177964.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	201	101	63-137
71-43-2	Benzene	50	47.3	95	78-117
108-86-1	Bromobenzene	50	46.6	93	82-121
74-97-5	Bromochloromethane	50	45.6	91	83-124
75-27-4	Bromodichloromethane	50	47.1	94	83-123
75-25-2	Bromoform	50	51.7	103	80-140
74-83-9	Bromomethane	50	36.9	74	26-167
78-93-3	2-Butanone (MEK)	200	198	99	73-135
104-51-8	n-Butylbenzene	50	51.7	103	78-126
135-98-8	sec-Butylbenzene	50	50.1	100	78-122
98-06-6	tert-Butylbenzene	50	50.0	100	77-122
75-15-0	Carbon disulfide	50	43.2	86	60-131
56-23-5	Carbon tetrachloride	50	49.6	99	75-127
108-90-7	Chlorobenzene	50	50.3	101	83-115
75-00-3	Chloroethane	50	39.3	79	61-135
67-66-3	Chloroform	50	41.1	82	76-118
74-87-3	Chloromethane	50	40.7	81	46-144
95-49-8	o-Chlorotoluene	50	47.1	94	80-120
106-43-4	p-Chlorotoluene	50	46.5	93	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	47.1	94	75-135
124-48-1	Dibromochloromethane	50	48.1	96	84-128
106-93-4	1,2-Dibromoethane	50	46.5	93	82-129
95-50-1	1,2-Dichlorobenzene	50	48.5	97	85-117
541-73-1	1,3-Dichlorobenzene	50	48.6	97	83-116
106-46-7	1,4-Dichlorobenzene	50	47.9	96	82-115
75-71-8	Dichlorodifluoromethane	50	50.0	100	49-153
75-34-3	1,1-Dichloroethane	50	44.8	90	75-122
107-06-2	1,2-Dichloroethane	50	45.9	92	74-116
75-35-4	1,1-Dichloroethene	50	45.0	90	68-129
156-59-2	cis-1,2-Dichloroethene	50	45.3	91	78-120
156-60-5	trans-1,2-Dichloroethene	50	44.0	88	74-125
78-87-5	1,2-Dichloropropane	50	48.5	97	80-120
142-28-9	1,3-Dichloropropane	50	47.3	95	82-116
594-20-7	2,2-Dichloropropane	50	49.7	99	70-128
563-58-6	1,1-Dichloropropene	50	47.2	94	75-121
10061-01-5	cis-1,3-Dichloropropene	50	48.6	97	84-123

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-BS	V177964.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	49.1	98	84-124
100-41-4	Ethylbenzene	50	51.1	102	80-115
87-68-3	Hexachlorobutadiene	50	55.7	111	68-137
591-78-6	2-Hexanone	200	204	102	74-132
74-88-4	Iodomethane	50	44.3	89	10-200
98-82-8	Isopropylbenzene	50	53.4	107	79-120
99-87-6	p-Isopropyltoluene	50	51.8	104	80-122
1634-04-4	Methyl Tert Butyl Ether	50	41.9	84	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	195	98	77-129
74-95-3	Methylene bromide	50	47.2	94	83-121
75-09-2	Methylene chloride	50	39.7	79	74-125
91-20-3	Naphthalene	50	47.7	95	73-138
103-65-1	n-Propylbenzene	50	47.2	94	78-117
100-42-5	Styrene	50	55.2	110	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	51.3	103	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	43.5	87	78-122
127-18-4	Tetrachloroethene	50	53.4	107	75-125
108-88-3	Toluene	50	49.1	98	80-115
87-61-6	1,2,3-Trichlorobenzene	50	49.1	98	73-140
120-82-1	1,2,4-Trichlorobenzene	50	50.4	101	77-137
71-55-6	1,1,1-Trichloroethane	50	47.0	94	77-124
79-00-5	1,1,2-Trichloroethane	50	47.0	94	83-118
79-01-6	Trichloroethene	50	48.2	96	80-123
75-69-4	Trichlorofluoromethane	50	45.4	91	71-134
96-18-4	1,2,3-Trichloropropane	50	43.4	87	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.6	99	81-119
108-67-8	1,3,5-Trimethylbenzene	50	48.6	97	79-120
108-05-4	Vinyl Acetate	50	58.2	116	77-131
75-01-4	Vinyl chloride	50	42.5	85	56-138
	m,p-Xylene	100	105	105	81-118
95-47-6	o-Xylene	50	51.7	103	81-119
1330-20-7	Xylene (total)	150	157	105	81-118

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-BS	V177964.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	85-118%
17060-07-0	1,2-Dichloroethane-D4	97%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-1MS	V177947.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-1	V177942.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	JD29967-1 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	155	78	52-133
71-43-2	Benzene	ND	50	51.7	103	55-129
108-86-1	Bromobenzene	ND	50	49.3	99	73-120
74-97-5	Bromochloromethane	ND	50	50.2	100	75-122
75-27-4	Bromodichloromethane	ND	50	49.3	99	74-123
75-25-2	Bromoform	ND	50	50.8	102	69-135
74-83-9	Bromomethane	ND	50	45.4	91	11-167
78-93-3	2-Butanone (MEK)	ND	200	186	93	64-131
104-51-8	n-Butylbenzene	ND	50	58.3	117	69-130
135-98-8	sec-Butylbenzene	ND	50	56.3	113	70-125
98-06-6	tert-Butylbenzene	ND	50	55.2	110	68-125
75-15-0	Carbon disulfide	6.9	50	59.9	106	54-137
56-23-5	Carbon tetrachloride	ND	50	54.9	110	68-132
108-90-7	Chlorobenzene	ND	50	52.0	104	71-119
75-00-3	Chloroethane	ND	50	53.1	106	50-146
67-66-3	Chloroform	ND	50	45.2	90	67-120
74-87-3	Chloromethane	ND	50	49.1	98	42-146
95-49-8	o-Chlorotoluene	ND	50	51.4	103	71-120
106-43-4	p-Chlorotoluene	ND	50	50.7	101	71-117
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	48.6	97	65-130
124-48-1	Dibromochloromethane	ND	50	49.0	98	74-125
106-93-4	1,2-Dibromoethane	ND	50	47.7	95	74-125
95-50-1	1,2-Dichlorobenzene	ND	50	51.2	102	73-117
541-73-1	1,3-Dichlorobenzene	ND	50	51.0	102	73-117
106-46-7	1,4-Dichlorobenzene	ND	50	50.3	101	70-117
75-71-8	Dichlorodifluoromethane	ND	50	64.0	128	46-169
75-34-3	1,1-Dichloroethane	ND	50	51.7	103	66-124
107-06-2	1,2-Dichloroethane	ND	50	49.2	98	66-115
75-35-4	1,1-Dichloroethene	ND	50	57.5	115	60-136
156-59-2	cis-1,2-Dichloroethene	31.0	50	87.5	113	55-133
156-60-5	trans-1,2-Dichloroethene	ND	50	50.7	101	67-127
78-87-5	1,2-Dichloropropane	ND	50	52.6	105	72-120
142-28-9	1,3-Dichloropropane	ND	50	48.6	97	72-115
594-20-7	2,2-Dichloropropane	ND	50	56.0	112	61-133
563-58-6	1,1-Dichloropropene	ND	50	54.0	108	68-127
10061-01-5	cis-1,3-Dichloropropene	ND	50	49.0	98	75-123

* = Outside of Control Limits.

5.3.1
5

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-1MS	V177947.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-1	V177942.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	JD29967-1 ug/l	Spike Q	MS ug/l	MS %	Limits
10061-02-6	trans-1,3-Dichloropropene	ND	50	48.2	96	73-122
100-41-4	Ethylbenzene	ND	50	53.7	107	44-136
87-68-3	Hexachlorobutadiene	ND	50	61.5	123	55-143
591-78-6	2-Hexanone	ND	200	196	98	64-129
74-88-4	Iodomethane	ND	50	51.5	103	10-200
98-82-8	Isopropylbenzene	ND	50	57.4	115	71-122
99-87-6	p-Isopropyltoluene	ND	50	56.9	114	72-124
1634-04-4	Methyl Tert Butyl Ether	ND	50	46.7	93	64-122
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	200	200	100	68-128
74-95-3	Methylene bromide	ND	50	48.7	97	74-118
75-09-2	Methylene chloride	ND	50	46.6	93	65-126
91-20-3	Naphthalene	ND	50	49.8	100	58-140
103-65-1	n-Propylbenzene	ND	50	52.3	105	64-123
100-42-5	Styrene	ND	50	56.9	114	73-124
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	52.3	105	74-123
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	46.8	94	68-120
127-18-4	Tetrachloroethene	13.2	50	70.6	115	61-134
108-88-3	Toluene	0.77	50	52.5	103	54-130
87-61-6	1,2,3-Trichlorobenzene	ND	50	51.1	102	64-135
120-82-1	1,2,4-Trichlorobenzene	ND	50	52.7	105	67-134
71-55-6	1,1,1-Trichloroethane	ND	50	52.3	105	66-130
79-00-5	1,1,2-Trichloroethane	ND	50	48.5	97	73-117
79-01-6	Trichloroethene	4.4	50	56.4	104	56-139
75-69-4	Trichlorofluoromethane	ND	50	62.6	125	63-150
96-18-4	1,2,3-Trichloropropane	ND	50	44.5	89	71-118
95-63-6	1,2,4-Trimethylbenzene	ND	50	54.3	109	45-139
108-67-8	1,3,5-Trimethylbenzene	ND	50	53.1	106	60-128
108-05-4	Vinyl Acetate	ND	50	65.2	130* a	66-128
75-01-4	Vinyl chloride	ND	50	53.5	107	48-148
	m,p-Xylene	ND	100	109	109	42-140
95-47-6	o-Xylene	ND	50	54.1	108	54-133
1330-20-7	Xylene (total)	ND	150	163	109	46-138

* = Outside of Control Limits.

5.3.1
5

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-1MS	V177947.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-1	V177942.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Surrogate Recoveries	MS	JD29967-1	Limits
1868-53-7	Dibromofluoromethane	98%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	80-121%
2037-26-5	Toluene-D8	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	93%	95%	80-120%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.3.1
5

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-4MS	V177972.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-4	V177969.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	JD29922-4 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	132	66	52-133
71-43-2	Benzene	ND	50	47.0	94	55-129
108-86-1	Bromobenzene	ND	50	44.2	88	73-120
74-97-5	Bromochloromethane	ND	50	44.4	89	75-122
75-27-4	Bromodichloromethane	ND	50	44.7	89	74-123
75-25-2	Bromoform	ND	50	48.5	97	69-135
74-83-9	Bromomethane	ND	50	40.3	81	11-167
78-93-3	2-Butanone (MEK)	ND	200	164	82	64-131
104-51-8	n-Butylbenzene	ND	50	51.8	104	69-130
135-98-8	sec-Butylbenzene	ND	50	51.6	103	70-125
98-06-6	tert-Butylbenzene	ND	50	50.2	100	68-125
75-15-0	Carbon disulfide	ND	50	44.7	89	54-137
56-23-5	Carbon tetrachloride	ND	50	51.7	103	68-132
108-90-7	Chlorobenzene	ND	50	48.4	97	71-119
75-00-3	Chloroethane	ND	50	45.1	90	50-146
67-66-3	Chloroform	ND	50	39.8	80	67-120
74-87-3	Chloromethane	ND	50	44.1	88	42-146
95-49-8	o-Chlorotoluene	ND	50	46.1	92	71-120
106-43-4	p-Chlorotoluene	ND	50	45.4	91	71-117
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	44.8	90	65-130
124-48-1	Dibromochloromethane	ND	50	46.0	92	74-125
106-93-4	1,2-Dibromoethane	ND	50	44.3	89	74-125
95-50-1	1,2-Dichlorobenzene	ND	50	46.1	92	73-117
541-73-1	1,3-Dichlorobenzene	ND	50	46.3	93	73-117
106-46-7	1,4-Dichlorobenzene	ND	50	45.9	92	70-117
75-71-8	Dichlorodifluoromethane	ND	50	59.1	118	46-169
75-34-3	1,1-Dichloroethane	ND	50	45.0	90	66-124
107-06-2	1,2-Dichloroethane	ND	50	43.6	87	66-115
75-35-4	1,1-Dichloroethene	ND	50	48.3	97	60-136
156-59-2	cis-1,2-Dichloroethene	ND	50	44.9	90	55-133
156-60-5	trans-1,2-Dichloroethene	ND	50	45.2	90	67-127
78-87-5	1,2-Dichloropropane	ND	50	47.4	95	72-120
142-28-9	1,3-Dichloropropane	ND	50	45.0	90	72-115
594-20-7	2,2-Dichloropropane	ND	50	50.9	102	61-133
563-58-6	1,1-Dichloropropene	ND	50	48.8	98	68-127
10061-01-5	cis-1,3-Dichloropropene	ND	50	45.4	91	75-123

* = Outside of Control Limits.

5.3.2
5

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-4MS	V177972.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-4	V177969.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	JD29922-4 ug/l	Spike Q	MS ug/l	MS %	Limits	
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.4	93	73-122
100-41-4	Ethylbenzene	ND		50	50.2	100	44-136
87-68-3	Hexachlorobutadiene	ND		50	57.7	115	55-143
591-78-6	2-Hexanone	ND		200	177	89	64-129
74-88-4	Iodomethane	ND		50	45.0	90	10-200
98-82-8	Isopropylbenzene	ND		50	53.9	108	71-122
99-87-6	p-Isopropyltoluene	ND		50	51.8	104	72-124
1634-04-4	Methyl Tert Butyl Ether	ND		50	39.6	79	64-122
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	182	91	68-128
74-95-3	Methylene bromide	ND		50	44.4	89	74-118
75-09-2	Methylene chloride	ND		50	40.0	80	65-126
91-20-3	Naphthalene	ND		50	44.9	90	58-140
103-65-1	n-Propylbenzene	ND		50	46.8	94	64-123
100-42-5	Styrene	ND		50	53.5	107	73-124
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	50.2	100	74-123
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	41.7	83	68-120
127-18-4	Tetrachloroethene	ND		50	53.9	108	61-134
108-88-3	Toluene	ND		50	48.3	97	54-130
87-61-6	1,2,3-Trichlorobenzene	ND		50	46.0	92	64-135
120-82-1	1,2,4-Trichlorobenzene	ND		50	47.2	94	67-134
71-55-6	1,1,1-Trichloroethane	ND		50	48.4	97	66-130
79-00-5	1,1,2-Trichloroethane	ND		50	45.1	90	73-117
79-01-6	Trichloroethene	0.83	J	50	48.0	94	56-139
75-69-4	Trichlorofluoromethane	ND		50	54.1	108	63-150
96-18-4	1,2,3-Trichloropropane	ND		50	40.2	80	71-118
95-63-6	1,2,4-Trimethylbenzene	ND		50	48.3	97	45-139
108-67-8	1,3,5-Trimethylbenzene	ND		50	48.3	97	60-128
108-05-4	Vinyl Acetate	ND		50	56.1	112	66-128
75-01-4	Vinyl chloride	ND		50	47.5	95	48-148
	m,p-Xylene	ND		100	102	102	42-140
95-47-6	o-Xylene	ND		50	51.0	102	54-133
1330-20-7	Xylene (total)	ND		150	153	102	46-138

* = Outside of Control Limits.

5.3.2
5

Matrix Spike Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-4MS	V177972.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-4	V177969.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Surrogate Recoveries	MS	JD29922-4	Limits
1868-53-7	Dibromofluoromethane	95%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	109%	80-121%
2037-26-5	Toluene-D8	100%	96%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	80-120%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-2DUP	V177949.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-2	V177943.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	JD29967-2 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
67-64-1	Acetone	ND	ND	nc		17
71-43-2	Benzene	ND	ND	nc		11
108-86-1	Bromobenzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		10
75-25-2	Bromoform	ND	ND	nc		10
74-83-9	Bromomethane	ND	ND	nc		10
78-93-3	2-Butanone (MEK)	ND	ND	nc		10
104-51-8	n-Butylbenzene	ND	ND	nc		9
135-98-8	sec-Butylbenzene	ND	ND	nc		5
98-06-6	tert-Butylbenzene	ND	ND	nc		10
75-15-0	Carbon disulfide	ND	ND	nc		10
56-23-5	Carbon tetrachloride	ND	ND	nc		8
108-90-7	Chlorobenzene	ND	ND	nc		10
75-00-3	Chloroethane	ND	ND	nc		10
67-66-3	Chloroform	ND	ND	nc		8
74-87-3	Chloromethane	ND	ND	nc		10
95-49-8	o-Chlorotoluene	ND	ND	nc		10
106-43-4	p-Chlorotoluene	ND	ND	nc		10
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		10
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		10
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		10
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		10
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		6
107-06-2	1,2-Dichloroethane	ND	ND	nc		10
75-35-4	1,1-Dichloroethene	ND	ND	nc		10
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		13
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		10
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
142-28-9	1,3-Dichloropropane	ND	ND	nc		20
594-20-7	2,2-Dichloropropane	ND	ND	nc		20
563-58-6	1,1-Dichloropropene	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20

* = Outside of Control Limits.

5.4.1
5

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-2DUP	V177949.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-2	V177943.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Compound	JD29967-2 ug/l	DUP Q	ug/l	Q	RPD	Limits
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
100-41-4	Ethylbenzene	ND		ND		nc	7
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
591-78-6	2-Hexanone	ND		ND		nc	10
74-88-4	Iodomethane	ND		ND		nc	11
98-82-8	Isopropylbenzene	ND		ND		nc	8
99-87-6	p-Isopropyltoluene	ND		ND		nc	10
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
74-95-3	Methylene bromide	ND		ND		nc	20
75-09-2	Methylene chloride	ND		ND		nc	10
91-20-3	Naphthalene	ND		ND		nc	7
103-65-1	n-Propylbenzene	ND		ND		nc	9
100-42-5	Styrene	ND		ND		nc	20
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	10
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	12
75-69-4	Trichlorofluoromethane	ND		ND		nc	20
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	10
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	10
108-05-4	Vinyl Acetate	ND		ND		nc	20
75-01-4	Vinyl chloride	ND		ND		nc	6
	m,p-Xylene	ND		ND		nc	6
95-47-6	o-Xylene	ND		ND		nc	4
1330-20-7	Xylene (total)	ND		ND		nc	8

* = Outside of Control Limits.

5.4.1
5

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-2DUP	V177949.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-2	V177943.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1, JD29967-2, JD29967-3, JD29967-4, JD29967-5, JD29967-6, JD29967-7, JD29967-8, JD29967-11, JD29967-12, JD29967-13, JD29967-14, JD29967-15, JD29967-16, JD29967-17

CAS No.	Surrogate Recoveries	DUP	JD29967-2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	106%	80-121%
2037-26-5	Toluene-D8	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	80-120%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-5DUP	V177974.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-5	V177970.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	JD29922-5		Q	RPD	Limits
		ug/l	DUP ug/l			
67-64-1	Acetone	30.5	29.8	2		17
71-43-2	Benzene	0.67	0.80	18* a		11
108-86-1	Bromobenzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		10
75-25-2	Bromoform	ND	ND	nc		10
74-83-9	Bromomethane	ND	ND	nc		10
78-93-3	2-Butanone (MEK)	18.9	20.2	7		10
104-51-8	n-Butylbenzene	ND	ND	nc		9
135-98-8	sec-Butylbenzene	ND	ND	nc		5
98-06-6	tert-Butylbenzene	ND	ND	nc		10
75-15-0	Carbon disulfide	ND	ND	nc		10
56-23-5	Carbon tetrachloride	ND	ND	nc		8
108-90-7	Chlorobenzene	ND	ND	nc		10
75-00-3	Chloroethane	ND	ND	nc		10
67-66-3	Chloroform	ND	ND	nc		8
74-87-3	Chloromethane	ND	ND	nc		10
95-49-8	o-Chlorotoluene	ND	ND	nc		10
106-43-4	p-Chlorotoluene	ND	ND	nc		10
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		10
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		10
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		10
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		10
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		6
107-06-2	1,2-Dichloroethane	ND	ND	nc		10
75-35-4	1,1-Dichloroethene	ND	ND	nc		10
156-59-2	cis-1,2-Dichloroethene	5.9	6.8	14* a		13
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		10
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
142-28-9	1,3-Dichloropropane	ND	ND	nc		20
594-20-7	2,2-Dichloropropane	ND	ND	nc		20
563-58-6	1,1-Dichloropropene	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20

* = Outside of Control Limits.

5.4.2
5

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-5DUP	V177974.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-5	V177970.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Compound	JD29922-5 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
10061-02-6	trans-1,3-Dichloropropene	ND	ND		nc	20
100-41-4	Ethylbenzene	1.1	1.3		17* a	7
87-68-3	Hexachlorobutadiene	ND	ND		nc	20
591-78-6	2-Hexanone	ND	ND		nc	10
74-88-4	Iodomethane	ND	ND		nc	11
98-82-8	Isopropylbenzene	ND	ND		nc	8
99-87-6	p-Isopropyltoluene	ND	ND		nc	10
1634-04-4	Methyl Tert Butyl Ether	142	154		8	12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	ND		nc	10
74-95-3	Methylene bromide	ND	ND		nc	20
75-09-2	Methylene chloride	ND	ND		nc	10
91-20-3	Naphthalene	ND	ND		nc	7
103-65-1	n-Propylbenzene	ND	ND		nc	9
100-42-5	Styrene	ND	ND		nc	20
630-20-6	1,1,1,2-Tetrachloroethane	ND	ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND		nc	10
127-18-4	Tetrachloroethene	ND	ND		nc	10
108-88-3	Toluene	5.8	6.6		13* a	10
87-61-6	1,2,3-Trichlorobenzene	ND	ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND	ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND	ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND	ND		nc	10
79-01-6	Trichloroethene	44.7	51.3		14* a	12
75-69-4	Trichlorofluoromethane	ND	ND		nc	20
96-18-4	1,2,3-Trichloropropane	ND	ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	ND	1.1	J	200* b	10
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	10
108-05-4	Vinyl Acetate	ND	ND		nc	20
75-01-4	Vinyl chloride	ND	ND		nc	6
	m,p-Xylene	3.3	3.9		17* a	6
95-47-6	o-Xylene	1.6	1.8		12* a	4
1330-20-7	Xylene (total)	4.9	5.7		15* a	8

* = Outside of Control Limits.

5.4.2
5

Duplicate Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-5DUP	V177974.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-5	V177970.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-8, JD29967-9, JD29967-10, JD29967-18, JD29967-19, JD29967-20, JD29967-21, JD29967-22

CAS No.	Surrogate Recoveries	DUP	JD29922-5	Limits
1868-53-7	Dibromofluoromethane	100%	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	80-121%
2037-26-5	Toluene-D8	96%	98%	80-120%
460-00-4	4-Bromofluorobenzene	92%	91%	80-120%

- (a) High RPD due to low concentration of hit
- (b) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7513-BFB	Injection Date: 08/16/21
Lab File ID: V177831.D	Injection Time: 22:10
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	15227	19.1	Pass
75	30.0 - 60.0% of mass 95	38048	47.6	Pass
95	Base peak, 100% relative abundance	79917	100.0	Pass
96	5.0 - 9.0% of mass 95	5344	6.69	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	79517	99.5	Pass
175	5.0 - 9.0% of mass 174	6159	7.71 (7.75) ^a	Pass
176	95.0 - 101.0% of mass 174	77053	96.4 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	5009	6.27 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7513-IC7513	V177833.D	08/16/21	23:08	00:58	Initial cal 0.5
VV7513-IC7513	V177834.D	08/16/21	23:38	01:28	Initial cal 1
VV7513-IC7513	V177835.D	08/17/21	00:07	01:57	Initial cal 2
VV7513-IC7513	V177836.D	08/17/21	00:36	02:26	Initial cal 4
VV7513-IC7513	V177837.D	08/17/21	01:06	02:56	Initial cal 8
VV7513-IC7513	V177838.D	08/17/21	01:35	03:25	Initial cal 20
VV7513-ICC7513	V177839.D	08/17/21	02:05	03:55	Initial cal 50
VV7513-IC7513	V177840.D	08/17/21	02:34	04:24	Initial cal 100
VV7513-IC7513	V177841.D	08/17/21	03:04	04:54	Initial cal 200
VV7513-ICV7513	V177844.D	08/17/21	04:31	06:21	Initial cal verification 50
VV7513-ICV7513	V177845.D	08/17/21	05:01	06:51	Initial cal verification 50

5.5.1
5

Instrument Performance Check (BFB)

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7518-BFB	Injection Date: 08/20/21
Lab File ID: V177936.D	Injection Time: 10:23
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14004	17.1	Pass
75	30.0 - 60.0% of mass 95	36885	45.0	Pass
95	Base peak, 100% relative abundance	82021	100.0	Pass
96	5.0 - 9.0% of mass 95	5394	6.58	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	87627	106.8	Pass
175	5.0 - 9.0% of mass 174	6384	7.78 (7.29) ^a	Pass
176	95.0 - 101.0% of mass 174	84861	103.5 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5554	6.77 (6.54) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7518-CC7513	V177936.D	08/20/21	10:23	00:00	Continuing cal 20
VV7518-BS	V177938.D	08/20/21	11:22	00:59	Blank Spike
VV7518-MB	V177940.D	08/20/21	12:21	01:58	Method Blank
ZZZZZZ	V177941.D	08/20/21	12:56	02:33	(unrelated sample)
JD29967-1	V177942.D	08/20/21	13:25	03:02	MW-35D
JD29967-2	V177943.D	08/20/21	13:54	03:31	MW-36D
JD29967-3	V177944.D	08/20/21	14:24	04:01	PZ-18
JD29967-4	V177945.D	08/20/21	14:54	04:31	MW-34D
JD29967-5	V177946.D	08/20/21	15:23	05:00	TWP-26
JD29967-1MS	V177947.D	08/20/21	15:52	05:29	Matrix Spike
JD29967-2DUP	V177949.D	08/20/21	16:52	06:29	Duplicate
JD29967-11	V177950.D	08/20/21	17:21	06:58	TRIP BLANK
JD29967-12	V177951.D	08/20/21	17:51	07:28	EW-501
JD29967-13	V177952.D	08/20/21	18:21	07:58	EW-601D
JD29967-14	V177953.D	08/20/21	18:51	08:28	MW-102A
JD29967-15	V177954.D	08/20/21	19:21	08:58	MW-406A
JD29967-16	V177955.D	08/20/21	19:50	09:27	MW-408A
JD29967-17	V177956.D	08/20/21	20:20	09:57	PZ-9
JD29967-6	V177957.D	08/20/21	20:49	10:26	PZ-16
JD29967-7	V177958.D	08/20/21	21:19	10:56	TWP-23
JD29967-8	V177959.D	08/20/21	21:48	11:25	TWP-22

5.5.2
5

Instrument Performance Check (BFB)

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7519-BFB	Injection Date: 08/21/21
Lab File ID: V177962.D	Injection Time: 08:24
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12722	16.2	Pass
75	30.0 - 60.0% of mass 95	34675	44.3	Pass
95	Base peak, 100% relative abundance	78357	100.0	Pass
96	5.0 - 9.0% of mass 95	5223	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	87453	111.6	Pass
175	5.0 - 9.0% of mass 174	6554	8.36 (7.49) ^a	Pass
176	95.0 - 101.0% of mass 174	83779	106.9 (95.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5461	6.97 (6.52) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7519-CC7513	V177962.D	08/21/21	08:24	00:00	Continuing cal 20
VV7519-BS	V177964.D	08/21/21	09:22	00:58	Blank Spike
VV7519-MB	V177966.D	08/21/21	10:22	01:58	Method Blank
ZZZZZZ	V177967.D	08/21/21	10:55	02:31	(unrelated sample)
ZZZZZZ	V177968.D	08/21/21	11:24	03:00	(unrelated sample)
JD29922-4	V177969.D	08/21/21	11:53	03:29	(used for QC only; not part of job JD29967)
JD29922-5	V177970.D	08/21/21	12:23	03:59	(used for QC only; not part of job JD29967)
ZZZZZZ	V177971.D	08/21/21	12:52	04:28	(unrelated sample)
JD29922-4MS	V177972.D	08/21/21	13:21	04:57	Matrix Spike
JD29967-8	V177973.D	08/21/21	13:50	05:26	TWP-22
JD29922-5DUP	V177974.D	08/21/21	14:20	05:56	Duplicate
JD29967-22	V177975.D	08/21/21	14:50	06:26	EQUIPMENT BLANK
ZZZZZZ	V177976.D	08/21/21	15:19	06:55	(unrelated sample)
ZZZZZZ	V177977.D	08/21/21	15:49	07:25	(unrelated sample)
ZZZZZZ	V177978.D	08/21/21	16:18	07:54	(unrelated sample)
JD29967-18	V177979.D	08/21/21	16:48	08:24	RX-28
JD29967-9	V177980.D	08/21/21	17:17	08:53	TWP-25
JD29967-10	V177981.D	08/21/21	17:47	09:23	TWP-20
JD29967-20	V177982.D	08/21/21	18:16	09:52	TWP-21
JD29967-21	V177983.D	08/21/21	18:45	10:21	TWP-24
JD29967-19	V177984.D	08/21/21	19:15	10:51	DUP01
JD29967-18	V177985.D	08/21/21	19:44	11:20	RX-28

5.5.3
5

Surrogate Recovery Summary

Job Number: JD29967
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD29967-1	V177942.D	99	104	99	95
JD29967-2	V177943.D	105	106	98	95
JD29967-3	V177944.D	100	102	98	94
JD29967-4	V177945.D	102	104	98	94
JD29967-5	V177946.D	101	104	98	94
JD29967-6	V177957.D	102	105	98	93
JD29967-7	V177958.D	101	102	98	93
JD29967-8	V177973.D	100	102	96	91
JD29967-8	V177959.D	102	104	97	92
JD29967-9	V177980.D	100	103	98	91
JD29967-10	V177981.D	107	109	96	89
JD29967-11	V177950.D	100	101	97	93
JD29967-12	V177951.D	101	103	98	92
JD29967-13	V177952.D	100	101	99	93
JD29967-14	V177953.D	102	104	98	93
JD29967-15	V177954.D	101	103	97	92
JD29967-16	V177955.D	102	104	98	93
JD29967-17	V177956.D	100	103	98	93
JD29967-18	V177985.D	104	105	97	91
JD29967-18	V177979.D	103	106	96	91
JD29967-19	V177984.D	101	103	96	91
JD29967-20	V177982.D	101	105	97	91
JD29967-21	V177983.D	103	106	96	90
JD29967-22	V177975.D	101	104	96	90
JD29922-4MS	V177972.D	95	100	100	91
JD29922-5DUP	V177974.D	100	102	96	92
JD29967-1MS	V177947.D	98	102	98	93
JD29967-2DUP	V177949.D	103	105	98	94
VV7518-BS	V177938.D	95	99	98	94
VV7518-MB	V177940.D	99	101	100	94
VV7519-BS	V177964.D	93	97	99	91
VV7519-MB	V177966.D	99	102	96	92

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

5.6.1
5

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/53/873 ORG 1116

SGS Job Number: JD29967R

Sampling Dates: 08/10/21 - 08/11/21



Report to:

Groundwater & Environmental Services
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Westford, MA 01886
BHoran@GesOnline.com; kkitchin@gesonline.com;
neregion@gesonline.com
ATTN: Kevin Kitchin

Total number of pages in report: **49**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: JD29967R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
---------------	----------------	---------	-----------------	-----------	------------------

This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD29967-1R	08/10/21	12:00 PSC	08/12/21	AQ	Ground Water	MW-35D
JD29967-2R	08/10/21	12:45 PSC	08/12/21	AQ	Ground Water	MW-36D
JD29967-3R	08/10/21	13:20 PSC	08/12/21	AQ	Ground Water	PZ-18
JD29967-4R	08/10/21	14:30 PSC	08/12/21	AQ	Ground Water	MW-34D
JD29967-5R	08/10/21	15:10 PSC	08/12/21	AQ	Ground Water	TWP-26
JD29967-6R	08/11/21	08:50 PSC	08/12/21	AQ	Ground Water	PZ-16
JD29967-7R	08/11/21	09:35 PSC	08/12/21	AQ	Ground Water	TWP-23
JD29967-8R	08/11/21	10:25 PSC	08/12/21	AQ	Ground Water	TWP-22
JD29967-9R	08/11/21	11:10 PSC	08/12/21	AQ	Ground Water	TWP-25
JD29967-10R	08/11/21	11:50 PSC	08/12/21	AQ	Ground Water	TWP-20
JD29967-11R	08/11/21	13:05 PSC	08/12/21	AQ	Trip Blank Water	TRIP BLANK
JD29967-12R	08/10/21	15:05 BD	08/12/21	AQ	Ground Water	EW-501



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD29967R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD29967-13R	08/10/21	14:15 BD	08/12/21	AQ	Ground Water	EW-601D
JD29967-14R	08/11/21	13:05 BD	08/12/21	AQ	Ground Water	MW-102A
JD29967-15R	08/10/21	13:10 BD	08/12/21	AQ	Ground Water	MW-406A
JD29967-16R	08/10/21	15:50 BD	08/12/21	AQ	Ground Water	MW-408A
JD29967-17R	08/10/21	13:30 BD	08/12/21	AQ	Ground Water	PZ-9
JD29967-18R	08/11/21	09:05 BD	08/12/21	AQ	Ground Water	RX-28
JD29967-19R	08/11/21	09:05 BD	08/12/21	AQ	Ground Water	DUP01
JD29967-20R	08/11/21	11:32 BD	08/12/21	AQ	Ground Water	TWP-21
JD29967-21R	08/11/21	10:48 BD	08/12/21	AQ	Ground Water	TWP-24
JD29967-22R	08/11/21	12:45 PSC	08/12/21	AQ	Equipment Blank	EQUIPMENT BLANK

Summary of Hits

Job Number: JD29967R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 08/10/21 thru 08/11/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD29967-1R MW-35D

No hits reported in this sample.

JD29967-2R MW-36D

No hits reported in this sample.

JD29967-3R PZ-18

No hits reported in this sample.

JD29967-4R MW-34D

No hits reported in this sample.

JD29967-5R TWP-26

No hits reported in this sample.

JD29967-6R PZ-16

No hits reported in this sample.

JD29967-7R TWP-23

No hits reported in this sample.

JD29967-8R TWP-22

No hits reported in this sample.

JD29967-9R TWP-25

No hits reported in this sample.

JD29967-10R TWP-20

No hits reported in this sample.

JD29967-11R TRIP BLANK

No hits reported in this sample.

Summary of Hits

Job Number: JD29967R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 08/10/21 thru 08/11/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD29967-12R **EW-501**

No hits reported in this sample.

JD29967-13R **EW-601D**

No hits reported in this sample.

JD29967-14R **MW-102A**

No hits reported in this sample.

JD29967-15R **MW-406A**

No hits reported in this sample.

JD29967-16R **MW-408A**

No hits reported in this sample.

JD29967-17R **PZ-9**

No hits reported in this sample.

JD29967-18R **RX-28**

No hits reported in this sample.

JD29967-19R **DUP01**

No hits reported in this sample.

JD29967-20R **TWP-21**

No hits reported in this sample.

JD29967-21R **TWP-24**

No hits reported in this sample.

JD29967-22R **EQUIPMENT BLANK**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW-35D	Date Sampled: 08/10/21
Lab Sample ID: JD29967-1R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177942R.D	1	08/20/21 13:25	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: MW-36D	Date Sampled: 08/10/21
Lab Sample ID: JD29967-2R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177943R.D	1	08/20/21 13:54	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18	Date Sampled: 08/10/21
Lab Sample ID: JD29967-3R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177944R.D	1	08/20/21 14:24	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	94%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34D		
Lab Sample ID: JD29967-4R		Date Sampled: 08/10/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177945R.D	1	08/20/21 14:54	EH	n/a	n/a	VV7518
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	94%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID: TWP-26	Date Sampled: 08/10/21
Lab Sample ID: JD29967-5R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177946R.D	1	08/20/21 15:23	EH	n/a	n/a	VV7518
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: PZ-16	Date Sampled: 08/11/21
Lab Sample ID: JD29967-6R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177957R.D	1	08/20/21 20:49	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

37
3

Client Sample ID: TWP-23	Date Sampled: 08/11/21
Lab Sample ID: JD29967-7R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177958R.D	1	08/20/21 21:19	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: TWP-22	Date Sampled: 08/11/21
Lab Sample ID: JD29967-8R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177959R.D	1	08/20/21 21:48	EH	n/a	n/a	VV7518
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	92%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.9
3

Client Sample ID: TWP-25	Date Sampled: 08/11/21
Lab Sample ID: JD29967-9R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177980R.D	1	08/21/21 17:17	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-20	Date Sampled: 08/11/21
Lab Sample ID: JD29967-10R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177981R.D	1	08/21/21 17:47	EH	n/a	n/a	VV7519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	107%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%	
2037-26-5	Toluene-D8	96%		80-120%	
460-00-4	4-Bromofluorobenzene	89%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK		
Lab Sample ID: JD29967-11R		Date Sampled: 08/11/21
Matrix: AQ - Trip Blank Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177950R.D	1	08/20/21 17:21	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-501	Date Sampled: 08/10/21
Lab Sample ID: JD29967-12R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177951R.D	1	08/20/21 17:51	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	92%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW-601D		
Lab Sample ID: JD29967-13R		Date Sampled: 08/10/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177952R.D	1	08/20/21 18:21	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%	
2037-26-5	Toluene-D8	99%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-102A		
Lab Sample ID: JD29967-14R		Date Sampled: 08/11/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177953R.D	1	08/20/21 18:51	EH	n/a	n/a	VV7518
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-406A		
Lab Sample ID: JD29967-15R		Date Sampled: 08/10/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177954R.D	1	08/20/21 19:21	EH	n/a	n/a	VV7518
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	92%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-408A	
Lab Sample ID: JD29967-16R	Date Sampled: 08/10/21
Matrix: AQ - Ground Water	Date Received: 08/12/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177955R.D	1	08/20/21 19:50	EH	n/a	n/a	VV7518
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	98%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-9	Date Sampled: 08/10/21
Lab Sample ID: JD29967-17R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177956R.D	1	08/20/21 20:20	EH	n/a	n/a	VV7518
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-28		
Lab Sample ID: JD29967-18R		Date Sampled: 08/11/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177985R.D	1	08/21/21 19:44	EH	n/a	n/a	VV7519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP01	Date Sampled: 08/11/21
Lab Sample ID: JD29967-19R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177984R.D	1	08/21/21 19:15	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-21		
Lab Sample ID: JD29967-20R		Date Sampled: 08/11/21
Matrix: AQ - Ground Water		Date Received: 08/12/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177982R.D	1	08/21/21 18:16	EH	n/a	n/a	VV7519
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%	
2037-26-5	Toluene-D8	97%		80-120%	
460-00-4	4-Bromofluorobenzene	91%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-24	Date Sampled: 08/11/21
Lab Sample ID: JD29967-21R	Date Received: 08/12/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177983R.D	1	08/21/21 18:45	EH	n/a	n/a	VV7519
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	90%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQUIPMENT BLANK	Date Sampled: 08/11/21
Lab Sample ID: JD29967-22R	Date Received: 08/12/21
Matrix: AQ - Equipment Blank	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V177975R.D	1	08/21/21 14:50	EH	n/a	n/a	VV7519
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%	
2037-26-5	Toluene-D8	96%		80-120%	
460-00-4	4-Bromofluorobenzene	90%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2236 Route 130, Dayton, NJ 08810
TEL 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsus

FED-EX Tracking #
Bottle Order Control # TF0542042
SGS Quote # GES MA #11905-00
SGS Job # JD 29967

Client / Reporting Information, Project Information, Requested Analysis, Lab Sample #, Date, Time, Matrix, # of bottles, Data Deliverable Information, Sample Custody table with signatures and dates.

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SGS-ACCUTEST
MARLBOR 8/12

SGS Sample Receipt Summary

Job Number: JD29967

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 8/12/2021 6:00:00 PM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (4.2);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	_____		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 212820	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD29967R: Chain of Custody

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4.1
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Job Change Order: JD29967

Requested Date: 7/21/2022 **Received Date:** 8/12/2021
Account Name: Groundwater & Environmental Se **Due Date:** 7/21/2022
Project Description: BASF, 55 Crowley Road, Lewiston, ME **Deliverable:** COMMB
C/O Initiated By: BETH WASS **PM:** MM **TAT (Days):** 14

=====
Sample #: JD29967-All **Change:**
Dept: Relog/retrieve for VR826014DIOXANE

TAT: 14

=====

JD29967R: Chain of Custody
Page 4 of 4

Above Changes Per: Brian Horan **Date/Time:** 7/22/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-MB	V177940.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1R, JD29967-2R, JD29967-3R, JD29967-4R, JD29967-5R, JD29967-6R, JD29967-7R, JD29967-8R, JD29967-11R, JD29967-12R, JD29967-13R, JD29967-14R, JD29967-15R, JD29967-16R, JD29967-17R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	101%	80-121%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-MB	V177966.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-9R, JD29967-10R, JD29967-18R, JD29967-19R, JD29967-20R, JD29967-21R, JD29967-22R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	96%	80-120%
460-00-4	4-Bromofluorobenzene	92%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7518-BS	V177938.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1R, JD29967-2R, JD29967-3R, JD29967-4R, JD29967-5R, JD29967-6R, JD29967-7R, JD29967-8R, JD29967-11R, JD29967-12R, JD29967-13R, JD29967-14R, JD29967-15R, JD29967-16R, JD29967-17R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1350	108	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	85-118%
17060-07-0	1,2-Dichloroethane-D4	99%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV7519-BS	V177964.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29967-9R, JD29967-10R, JD29967-18R, JD29967-19R, JD29967-20R, JD29967-21R, JD29967-22R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1440	115	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	85-118%
17060-07-0	1,2-Dichloroethane-D4	97%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	91%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-1MS	V177947.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-1	V177942.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1R, JD29967-2R, JD29967-3R, JD29967-4R, JD29967-5R, JD29967-6R, JD29967-7R, JD29967-8R, JD29967-11R, JD29967-12R, JD29967-13R, JD29967-14R, JD29967-15R, JD29967-16R, JD29967-17R

CAS No.	Compound	JD29967-1 ug/l	Spike Q	MS ug/l	MS %	Limits
123-91-1	1,4-Dioxane	ND		1250	1400	112 61-133

CAS No.	Surrogate Recoveries	MS	JD29967-1	Limits
1868-53-7	Dibromofluoromethane	98%	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	80-121%
2037-26-5	Toluene-D8	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	93%	95%	80-120%

* = Outside of Control Limits.

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Matrix Spike Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-4MS	V177972.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-4	V177969.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-9R, JD29967-10R, JD29967-18R, JD29967-19R, JD29967-20R, JD29967-21R, JD29967-22R

CAS No.	Compound	JD29922-4 ug/l	Spike Q	MS ug/l	MS %	Limits
123-91-1	1,4-Dioxane	ND		1250	1340	107 61-133

CAS No.	Surrogate Recoveries	MS	JD29922-4	Limits
1868-53-7	Dibromofluoromethane	95%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	109%	80-121%
2037-26-5	Toluene-D8	100%	96%	80-120%
460-00-4	4-Bromofluorobenzene	91%	91%	80-120%

* = Outside of Control Limits.

5.3.2
5

Duplicate Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29967-2DUP	V177949.D	1	08/20/21	EH	n/a	n/a	VV7518
JD29967-2	V177943.D	1	08/20/21	EH	n/a	n/a	VV7518

The QC reported here applies to the following samples:

Method: SW846 8260D

JD29967-1R, JD29967-2R, JD29967-3R, JD29967-4R, JD29967-5R, JD29967-6R, JD29967-7R, JD29967-8R, JD29967-11R, JD29967-12R, JD29967-13R, JD29967-14R, JD29967-15R, JD29967-16R, JD29967-17R

CAS No.	Compound	JD29967-2		Q	RPD	Limits
		ug/l	DUP ug/l			
123-91-1	1,4-Dioxane	ND	ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JD29967-2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	85-118%
17060-07-0	1,2-Dichloroethane-D4	105%	106%	80-121%
2037-26-5	Toluene-D8	98%	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	80-120%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29922-5DUP	V177974.D	1	08/21/21	EH	n/a	n/a	VV7519
JD29922-5	V177970.D	1	08/21/21	EH	n/a	n/a	VV7519

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29967-9R, JD29967-10R, JD29967-18R, JD29967-19R, JD29967-20R, JD29967-21R, JD29967-22R

CAS No.	Compound	JD29922-5 ug/l	DUP Q	DUP ug/l	Q	RPD	Limits
123-91-1	1,4-Dioxane	ND		ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JD29922-5	Limits
1868-53-7	Dibromofluoromethane	100%	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	80-121%
2037-26-5	Toluene-D8	96%	98%	80-120%
460-00-4	4-Bromofluorobenzene	92%	91%	80-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7513-BFB	Injection Date: 08/16/21
Lab File ID: V177831.D	Injection Time: 22:10
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	15227	19.1	Pass
75	30.0 - 60.0% of mass 95	38048	47.6	Pass
95	Base peak, 100% relative abundance	79917	100.0	Pass
96	5.0 - 9.0% of mass 95	5344	6.69	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	79517	99.5	Pass
175	5.0 - 9.0% of mass 174	6159	7.71 (7.75) ^a	Pass
176	95.0 - 101.0% of mass 174	77053	96.4 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	5009	6.27 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7513-IC7513	V177833.D	08/16/21	23:08	00:58	Initial cal 0.5
VV7513-IC7513	V177834.D	08/16/21	23:38	01:28	Initial cal 1
VV7513-IC7513	V177835.D	08/17/21	00:07	01:57	Initial cal 2
VV7513-IC7513	V177836.D	08/17/21	00:36	02:26	Initial cal 4
VV7513-IC7513	V177837.D	08/17/21	01:06	02:56	Initial cal 8
VV7513-IC7513	V177838.D	08/17/21	01:35	03:25	Initial cal 20
VV7513-ICC7513	V177839.D	08/17/21	02:05	03:55	Initial cal 50
VV7513-IC7513	V177840.D	08/17/21	02:34	04:24	Initial cal 100
VV7513-IC7513	V177841.D	08/17/21	03:04	04:54	Initial cal 200
VV7513-ICV7513	V177844.D	08/17/21	04:31	06:21	Initial cal verification 50
VV7513-ICV7513	V177845.D	08/17/21	05:01	06:51	Initial cal verification 50

5.5.1
5

Instrument Performance Check (BFB)

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7518-BFB	Injection Date: 08/20/21
Lab File ID: V177936.D	Injection Time: 10:23
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14004	17.1	Pass
75	30.0 - 60.0% of mass 95	36885	45.0	Pass
95	Base peak, 100% relative abundance	82021	100.0	Pass
96	5.0 - 9.0% of mass 95	5394	6.58	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	87627	106.8	Pass
175	5.0 - 9.0% of mass 174	6384	7.78 (7.29) ^a	Pass
176	95.0 - 101.0% of mass 174	84861	103.5 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5554	6.77 (6.54) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7518-CC7513	V177936.D	08/20/21	10:23	00:00	Continuing cal 20
VV7518-BS	V177938.D	08/20/21	11:22	00:59	Blank Spike
VV7518-MB	V177940.D	08/20/21	12:21	01:58	Method Blank
ZZZZZZ	V177941.D	08/20/21	12:56	02:33	(unrelated sample)
JD29967-1R	V177942R.D	08/20/21	13:25	03:02	MW-35D
JD29967-1	V177942.D	08/20/21	13:25	03:02	(used for QC only; not part of job JD29967R)
JD29967-2R	V177943R.D	08/20/21	13:54	03:31	MW-36D
JD29967-2	V177943.D	08/20/21	13:54	03:31	(used for QC only; not part of job JD29967R)
ZZZZZZ	V177944.D	08/20/21	14:24	04:01	(unrelated sample)
JD29967-3R	V177944R.D	08/20/21	14:24	04:01	PZ-18
JD29967-4R	V177945R.D	08/20/21	14:54	04:31	MW-34D
ZZZZZZ	V177945.D	08/20/21	14:54	04:31	(unrelated sample)
ZZZZZZ	V177946.D	08/20/21	15:23	05:00	(unrelated sample)
JD29967-5R	V177946R.D	08/20/21	15:23	05:00	TWP-26
JD29967-1MS	V177947.D	08/20/21	15:52	05:29	Matrix Spike
JD29967-2DUP	V177949.D	08/20/21	16:52	06:29	Duplicate
ZZZZZZ	V177950.D	08/20/21	17:21	06:58	(unrelated sample)
JD29967-11R	V177950R.D	08/20/21	17:21	06:58	TRIP BLANK
ZZZZZZ	V177951.D	08/20/21	17:51	07:28	(unrelated sample)
JD29967-12R	V177951R.D	08/20/21	17:51	07:28	EW-501
ZZZZZZ	V177952.D	08/20/21	18:21	07:58	(unrelated sample)
JD29967-13R	V177952R.D	08/20/21	18:21	07:58	EW-601D
ZZZZZZ	V177953.D	08/20/21	18:51	08:28	(unrelated sample)
JD29967-14R	V177953R.D	08/20/21	18:51	08:28	MW-102A

5.5.2
5

Instrument Performance Check (BFB)

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample:	VV7518-BFB	Injection Date:	08/20/21
Lab File ID:	V177936.D	Injection Time:	10:23
Instrument ID:	GCMSV		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	V177954.D	08/20/21	19:21	08:58	(unrelated sample)
JD29967-15R	V177954R.D	08/20/21	19:21	08:58	MW-406A
JD29967-16R	V177955R.D	08/20/21	19:50	09:27	MW-408A
ZZZZZZ	V177955.D	08/20/21	19:50	09:27	(unrelated sample)
JD29967-17R	V177956R.D	08/20/21	20:20	09:57	PZ-9
ZZZZZZ	V177956.D	08/20/21	20:20	09:57	(unrelated sample)
ZZZZZZ	V177957.D	08/20/21	20:49	10:26	(unrelated sample)
JD29967-6R	V177957R.D	08/20/21	20:49	10:26	PZ-16
JD29967-7R	V177958R.D	08/20/21	21:19	10:56	TWP-23
ZZZZZZ	V177958.D	08/20/21	21:19	10:56	(unrelated sample)
JD29967-8R	V177959R.D	08/20/21	21:48	11:25	TWP-22
ZZZZZZ	V177959.D	08/20/21	21:48	11:25	(unrelated sample)

5.5.2
5

Instrument Performance Check (BFB)

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: VV7519-BFB	Injection Date: 08/21/21
Lab File ID: V177962.D	Injection Time: 08:24
Instrument ID: GCMSV	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12722	16.2	Pass
75	30.0 - 60.0% of mass 95	34675	44.3	Pass
95	Base peak, 100% relative abundance	78357	100.0	Pass
96	5.0 - 9.0% of mass 95	5223	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	87453	111.6	Pass
175	5.0 - 9.0% of mass 174	6554	8.36 (7.49) ^a	Pass
176	95.0 - 101.0% of mass 174	83779	106.9 (95.8) ^a	Pass
177	5.0 - 9.0% of mass 176	5461	6.97 (6.52) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV7519-CC7513	V177962.D	08/21/21	08:24	00:00	Continuing cal 20
VV7519-BS	V177964.D	08/21/21	09:22	00:58	Blank Spike
VV7519-MB	V177966.D	08/21/21	10:22	01:58	Method Blank
ZZZZZZ	V177967.D	08/21/21	10:55	02:31	(unrelated sample)
ZZZZZZ	V177968.D	08/21/21	11:24	03:00	(unrelated sample)
JD29922-4	V177969.D	08/21/21	11:53	03:29	(used for QC only; not part of job JD29967R)
JD29922-5	V177970.D	08/21/21	12:23	03:59	(used for QC only; not part of job JD29967R)
ZZZZZZ	V177971.D	08/21/21	12:52	04:28	(unrelated sample)
JD29922-4MS	V177972.D	08/21/21	13:21	04:57	Matrix Spike
ZZZZZZ	V177973.D	08/21/21	13:50	05:26	(unrelated sample)
JD29922-5DUP	V177974.D	08/21/21	14:20	05:56	Duplicate
JD29967-22R	V177975R.D	08/21/21	14:50	06:26	EQUIPMENT BLANK
ZZZZZZ	V177975.D	08/21/21	14:50	06:26	(unrelated sample)
ZZZZZZ	V177976.D	08/21/21	15:19	06:55	(unrelated sample)
ZZZZZZ	V177977.D	08/21/21	15:49	07:25	(unrelated sample)
ZZZZZZ	V177978.D	08/21/21	16:18	07:54	(unrelated sample)
ZZZZZZ	V177979.D	08/21/21	16:48	08:24	(unrelated sample)
JD29967-9R	V177980R.D	08/21/21	17:17	08:53	TWP-25
ZZZZZZ	V177980.D	08/21/21	17:17	08:53	(unrelated sample)
JD29967-10R	V177981R.D	08/21/21	17:47	09:23	TWP-20
ZZZZZZ	V177981.D	08/21/21	17:47	09:23	(unrelated sample)
ZZZZZZ	V177982.D	08/21/21	18:16	09:52	(unrelated sample)
JD29967-20R	V177982R.D	08/21/21	18:16	09:52	TWP-21
ZZZZZZ	V177983.D	08/21/21	18:45	10:21	(unrelated sample)

5.5.3
5

Instrument Performance Check (BFB)

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample:	VV7519-BFB	Injection Date:	08/21/21
Lab File ID:	V177962.D	Injection Time:	08:24
Instrument ID:	GCMSV		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD29967-21R	V177983R.D	08/21/21	18:45	10:21	TWP-24
ZZZZZZ	V177984.D	08/21/21	19:15	10:51	(unrelated sample)
JD29967-19R	V177984R.D	08/21/21	19:15	10:51	DUP01
JD29967-18R	V177985R.D	08/21/21	19:44	11:20	RX-28
ZZZZZZ	V177985.D	08/21/21	19:44	11:20	(unrelated sample)

5.5.3
5

Surrogate Recovery Summary

Job Number: JD29967R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
----------------------------	-------------------

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD29967-1R	V177942R.D	99	104	99	95
JD29967-2R	V177943R.D	105	106	98	95
JD29967-3R	V177944R.D	100	102	98	94
JD29967-4R	V177945R.D	102	104	98	94
JD29967-5R	V177946R.D	101	104	98	94
JD29967-6R	V177957R.D	102	105	98	93
JD29967-7R	V177958R.D	101	102	98	93
JD29967-8R	V177959R.D	102	104	97	92
JD29967-9R	V177980R.D	100	103	98	91
JD29967-10R	V177981R.D	107	109	96	89
JD29967-11R	V177950R.D	100	101	97	93
JD29967-12R	V177951R.D	101	103	98	92
JD29967-13R	V177952R.D	100	101	99	93
JD29967-14R	V177953R.D	102	104	98	93
JD29967-15R	V177954R.D	101	103	97	92
JD29967-16R	V177955R.D	102	104	98	93
JD29967-17R	V177956R.D	100	103	98	93
JD29967-18R	V177985R.D	104	105	97	91
JD29967-19R	V177984R.D	101	103	96	91
JD29967-20R	V177982R.D	101	105	97	91
JD29967-21R	V177983R.D	103	106	96	90
JD29967-22R	V177975R.D	101	104	96	90
JD29922-4MS	V177972.D	95	100	100	91
JD29922-5DUP	V177974.D	100	102	96	92
JD29967-1MS	V177947.D	98	102	98	93
JD29967-2DUP	V177949.D	103	105	98	94
VV7518-BS	V177938.D	95	99	98	94
VV7518-MB	V177940.D	99	101	100	94
VV7519-BS	V177964.D	93	97	99	91
VV7519-MB	V177966.D	99	102	96	92

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

5.6.1
5

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/53/873 ORG 1116

SGS Job Number: JD34909

Sampling Dates: 11/01/21 - 11/05/21

Report to:

Groundwater & Environmental Services
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Westford, MA 01886
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neregion@gesonline.com
ATTN: Kevin Kitchin

Total number of pages in report: **217**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Mike Earp".

Mike Earp
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Groundwater & Environmental Services

Job No: JD34909

BASF, 55 Crowley Road, Lewiston, ME
 Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD34909-1	11/01/21	15:20	LW	11/05/21	AQ	Ground Water	MW204
JD34909-2	11/01/21	16:10	LW	11/05/21	AQ	Ground Water	PZ-21
JD34909-3	11/01/21	15:25	LW	11/05/21	AQ	Ground Water	SW-1
JD34909-4	11/01/21	15:55	LW	11/05/21	AQ	Ground Water	SW-5
JD34909-5	11/02/21	08:25	LW	11/05/21	AQ	Ground Water	PZ-23
JD34909-6	11/02/21	10:20	LW	11/05/21	AQ	Ground Water	RX-03
JD34909-7	11/02/21	11:20	LW	11/05/21	AQ	Ground Water	PZ-20
JD34909-8	11/02/21	13:10	LW	11/05/21	AQ	Ground Water	PZ-16
JD34909-9	11/02/21	14:00	LW	11/05/21	AQ	Ground Water	TWP-25
JD34909-10	11/02/21	12:23	LW	11/05/21	AQ	Ground Water	TWP-26
JD34909-11	11/02/21	15:55	LW	11/05/21	AQ	Ground Water	EW501
JD34909-12	11/02/21	14:35	LW	11/05/21	AQ	Ground Water	TWP23



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-13	11/02/21	15:45 LW	11/05/21	AQ	Ground Water	EW601D
JD34909-14	11/03/21	09:45 LW	11/05/21	AQ	Ground Water	PZ-17
JD34909-15	11/03/21	11:05 LW	11/05/21	AQ	Ground Water	MW36D
JD34909-16	11/03/21	11:05 LW	11/05/21	AQ	Ground Water	MW36D DUPLICATE
JD34909-17	11/03/21	12:10 LW	11/05/21	AQ	Ground Water	MW35
JD34909-18	11/03/21	12:55 LW	11/05/21	AQ	Ground Water	MW35D
JD34909-19	11/03/21	15:05 LW	11/05/21	AQ	Ground Water	MW401B
JD34909-20	11/03/21	16:05 LW	11/05/21	AQ	Ground Water	PZ-10
JD34909-21	11/03/21	16:50 LW	11/05/21	AQ	Ground Water	MW208
JD34909-22	11/03/21	10:00 LW	11/05/21	AQ	Ground Water	MW34
JD34909-23	11/03/21	13:10 LW	11/05/21	AQ	Ground Water	MW34D
JD34909-24	11/03/21	15:20 LW	11/05/21	AQ	Ground Water	RX-19
JD34909-25	11/03/21	13:58 LW	11/05/21	AQ	Ground Water	PZ-18



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-26	11/04/21	08:55 LW	11/05/21	AQ	Ground Water	MW109
JD34909-27	11/04/21	11:40 LW	11/05/21	AQ	Ground Water	RX28
JD34909-28	11/04/21	12:40 LW	11/05/21	AQ	Ground Water	RX01
JD34909-29	11/04/21	13:40 LW	11/05/21	AQ	Ground Water	MW408A
JD34909-30	11/03/21	17:00 LW	11/05/21	AQ	Surface Water	PZNNBSW-14A
JD34909-31	11/04/21	10:50 LW	11/05/21	AQ	Ground Water	MW106
JD34909-32	11/04/21	13:37 LW	11/05/21	AQ	Ground Water	MW33
JD34909-33	11/04/21	12:35 LW	11/05/21	AQ	Ground Water	EW403
JD34909-34	11/04/21	14:00 LW	11/05/21	AQ	Surface Water	SW-7
JD34909-35	11/04/21	11:36 LW	11/05/21	AQ	Ground Water	MW 111
JD34909-36	11/04/21	14:35 LW	11/05/21	AQ	Ground Water	PZNNB 11A
JD34909-37	11/04/21	15:35 LW	11/05/21	AQ	Ground Water	RX-13
JD34909-38	11/04/21	15:30 LW	11/05/21	AQ	Ground Water	RX-7



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-39	11/04/21	16:15 LW	11/05/21	AQ	Ground Water	MW101
JD34909-40	11/05/21	10:05 LW	11/05/21	AQ	Ground Water	RX20
JD34909-41	11/05/21	09:58 LW	11/05/21	AQ	Ground Water	RX-12
JD34909-42	11/05/21	09:58 LW	11/05/21	AQ	Ground Water	RX-12 DUP
JD34909-43	11/05/21	10:05 LW	11/05/21	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD34909-1 MW204

Benzene	3.8	0.50			ug/l	SW846 8260D
Chloroethane	179	10			ug/l	SW846 8260D
1,1-Dichloroethane	69.7	1.0			ug/l	SW846 8260D
1,1-Dichloroethene	2.4	1.0			ug/l	SW846 8260D
cis-1,2-Dichloroethene	151	1.0			ug/l	SW846 8260D
trans-1,2-Dichloroethene	2.0	1.0			ug/l	SW846 8260D
Trichloroethene	19.8	1.0			ug/l	SW846 8260D
Vinyl chloride	7.8	1.0			ug/l	SW846 8260D

JD34909-2 PZ-21

Benzene	7.0	0.50			ug/l	SW846 8260D
Chloroethane	523	10			ug/l	SW846 8260D
1,1-Dichloroethane	50.0	1.0			ug/l	SW846 8260D
1,2-Dichloroethane	1.1	1.0			ug/l	SW846 8260D
1,1-Dichloroethene	1.0	1.0			ug/l	SW846 8260D
cis-1,2-Dichloroethene	26.4	1.0			ug/l	SW846 8260D
Methylene chloride	3.7	2.0			ug/l	SW846 8260D
Toluene	3.0	1.0			ug/l	SW846 8260D
Vinyl chloride	64.5	1.0			ug/l	SW846 8260D
m,p-Xylene	1.3	1.0			ug/l	SW846 8260D
Xylene (total)	2.2	1.0			ug/l	SW846 8260D

JD34909-3 SW-1

No hits reported in this sample.

JD34909-4 SW-5

No hits reported in this sample.

JD34909-5 PZ-23

No hits reported in this sample.

JD34909-6 RX-03

Chloroethane ^a	292	25			ug/l	SW846 8260D
Chloroform ^a	36.8	25			ug/l	SW846 8260D
1,1-Dichloroethane	4470	250			ug/l	SW846 8260D
1,1-Dichloroethene ^a	1340	25			ug/l	SW846 8260D
1,1,1-Trichloroethane	14600	250			ug/l	SW846 8260D

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JD34909-7 PZ-20

Chloroform ^a	33.9	25		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a	518	25		ug/l	SW846 8260D
Tetrachloroethene	9900	100		ug/l	SW846 8260D
Trichloroethene ^a	252	25		ug/l	SW846 8260D

JD34909-8 PZ-16

cis-1,2-Dichloroethene	2.1	1.0		ug/l	SW846 8260D
Tetrachloroethene	80.8	1.0		ug/l	SW846 8260D
Trichloroethene	200	1.0		ug/l	SW846 8260D

JD34909-9 TWP-25

cis-1,2-Dichloroethene	1.9	1.0		ug/l	SW846 8260D
Tetrachloroethene	17.7	1.0		ug/l	SW846 8260D
Trichloroethene	116	1.0		ug/l	SW846 8260D

JD34909-10 TWP-26

cis-1,2-Dichloroethene	4.0	1.0		ug/l	SW846 8260D
Tetrachloroethene	26.5	1.0		ug/l	SW846 8260D
Trichloroethene	194	1.0		ug/l	SW846 8260D

JD34909-11 EW501

1,1-Dichloroethane	2.4	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	23.4	1.0		ug/l	SW846 8260D
Tetrachloroethene	62.6	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane	4.2	1.0		ug/l	SW846 8260D
Trichloroethene	15.9	1.0		ug/l	SW846 8260D

JD34909-12 TWP23

No hits reported in this sample.

JD34909-13 EW601D

No hits reported in this sample.

JD34909-14 PZ-17

No hits reported in this sample.

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JD34909-15 MW36D

No hits reported in this sample.

JD34909-16 MW36D DUPLICATE

No hits reported in this sample.

JD34909-17 MW35

No hits reported in this sample.

JD34909-18 MW35D

Carbon disulfide	5.5	2.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	59.8	1.0		ug/l	SW846 8260D
Tetrachloroethene	5.0	1.0		ug/l	SW846 8260D
Trichloroethene	2.0	1.0		ug/l	SW846 8260D

JD34909-19 MW401B

No hits reported in this sample.

JD34909-20 PZ-10

cis-1,2-Dichloroethene	1.3	1.0		ug/l	SW846 8260D
Tetrachloroethene	106	1.0		ug/l	SW846 8260D
Trichloroethene	182	1.0		ug/l	SW846 8260D

JD34909-21 MW208

No hits reported in this sample.

JD34909-22 MW34

No hits reported in this sample.

JD34909-23 MW34D

cis-1,2-Dichloroethene	1.3	1.0		ug/l	SW846 8260D
Tetrachloroethene	46.6	1.0		ug/l	SW846 8260D
Trichloroethene	87.1	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD34909-24 RX-19

1,1-Dichloroethene	2.6	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene	112	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene	1.0	1.0		ug/l	SW846 8260D
Tetrachloroethene	167	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane	26.5	1.0		ug/l	SW846 8260D
Trichloroethene	94.8	1.0		ug/l	SW846 8260D

JD34909-25 PZ-18

No hits reported in this sample.

JD34909-26 MW109

cis-1,2-Dichloroethene	171	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene	7.5	1.0		ug/l	SW846 8260D
Tetrachloroethene	121	1.0		ug/l	SW846 8260D
Trichloroethene	50.4	1.0		ug/l	SW846 8260D

JD34909-27 RX28

cis-1,2-Dichloroethene	1.3	1.0		ug/l	SW846 8260D
Tetrachloroethene	145	1.0		ug/l	SW846 8260D
Trichloroethene	81.4	1.0		ug/l	SW846 8260D

JD34909-28 RX01

cis-1,2-Dichloroethene ^a	3020	50		ug/l	SW846 8260D
Tetrachloroethene ^a	7620	50		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a	88.9	50		ug/l	SW846 8260D
Trichloroethene ^a	7440	50		ug/l	SW846 8260D

JD34909-29 MW408A

cis-1,2-Dichloroethene	1.6	1.0		ug/l	SW846 8260D
Tetrachloroethene	90.6	1.0		ug/l	SW846 8260D
Trichloroethene	23.7	1.0		ug/l	SW846 8260D

JD34909-30 PZNNBSW-14A

No hits reported in this sample.

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

2

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD34909-31 MW106

Acetone		23900	1000		ug/l	SW846 8260D
Benzene ^a		227	2.5		ug/l	SW846 8260D
2-Butanone (MEK)		6200	1000		ug/l	SW846 8260D
Chloroform ^a		14.4	5.0		ug/l	SW846 8260D
1,1-Dichloroethane ^a		229	5.0		ug/l	SW846 8260D
1,1-Dichloroethene		1630	100		ug/l	SW846 8260D
cis-1,2-Dichloroethene		4170	100		ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		30.7	5.0		ug/l	SW846 8260D
Ethylbenzene ^a		625	5.0		ug/l	SW846 8260D
Isopropylbenzene ^a		16.0	5.0		ug/l	SW846 8260D
4-Methyl-2-pentanone(MIBK) ^a		630	25		ug/l	SW846 8260D
Methylene chloride ^a		386	10		ug/l	SW846 8260D
Tetrachloroethene		2220	100		ug/l	SW846 8260D
Toluene		1030	100		ug/l	SW846 8260D
1,1,1-Trichloroethane		27400	1000		ug/l	SW846 8260D
1,1,2-Trichloroethane ^a		15.4	5.0		ug/l	SW846 8260D
Trichloroethene		1480	100		ug/l	SW846 8260D
1,2,4-Trimethylbenzene ^a		98.3	10		ug/l	SW846 8260D
1,3,5-Trimethylbenzene ^a		31.9	10		ug/l	SW846 8260D
m,p-Xylene ^a		1690	5.0		ug/l	SW846 8260D
o-Xylene ^a		636	5.0		ug/l	SW846 8260D
Xylene (total) ^a		2330	5.0		ug/l	SW846 8260D

JD34909-32 MW33

Chloroform ^a		4.9	4.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a		57.4	4.0		ug/l	SW846 8260D
Tetrachloroethene		1200	40		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		7.9	4.0		ug/l	SW846 8260D
Trichloroethene ^a		392	4.0		ug/l	SW846 8260D

JD34909-33 EW403

Benzene ^a		177	10		ug/l	SW846 8260D
Chloroethane ^a		940	20		ug/l	SW846 8260D
Chloroform ^a		26.7	20		ug/l	SW846 8260D
1,1-Dichloroethane		4950	100		ug/l	SW846 8260D
1,1-Dichloroethene ^a		781	20		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a		3340	20		ug/l	SW846 8260D
Ethylbenzene ^a		433	20		ug/l	SW846 8260D
Methylene chloride ^a		63.6	40		ug/l	SW846 8260D
Toluene ^a		507	20		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		552	20		ug/l	SW846 8260D

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
		1,2,4-Trimethylbenzene ^a	80.8	40	ug/l	SW846 8260D
		Vinyl chloride ^a	290	20	ug/l	SW846 8260D
		m,p-Xylene ^a	1420	20	ug/l	SW846 8260D
		o-Xylene ^a	679	20	ug/l	SW846 8260D
		Xylene (total) ^a	2100	20	ug/l	SW846 8260D
JD34909-34 SW-7						
		cis-1,2-Dichloroethene	1.7	1.0	ug/l	SW846 8260D
JD34909-35 MW 111						
		Chloroform	147	100	ug/l	SW846 8260D
		1,1-Dichloroethene	192	100	ug/l	SW846 8260D
		cis-1,2-Dichloroethene	861	100	ug/l	SW846 8260D
		Tetrachloroethene	14900	100	ug/l	SW846 8260D
		1,1,1-Trichloroethane	5910	100	ug/l	SW846 8260D
		Trichloroethene	6490	100	ug/l	SW846 8260D
JD34909-36 PZNNB 11A						
No hits reported in this sample.						
JD34909-37 RX-13						
		Benzene ^a	18.2	2.0	ug/l	SW846 8260D
		Chloroform ^a	6.8	4.0	ug/l	SW846 8260D
		1,1-Dichloroethane ^a	26.6	4.0	ug/l	SW846 8260D
		1,1-Dichloroethene ^a	527	4.0	ug/l	SW846 8260D
		cis-1,2-Dichloroethene ^a	235	4.0	ug/l	SW846 8260D
		Ethylbenzene ^a	235	4.0	ug/l	SW846 8260D
		Methylene chloride ^a	19.5	8.0	ug/l	SW846 8260D
		Tetrachloroethene	50400	1000	ug/l	SW846 8260D
		Toluene ^a	196	4.0	ug/l	SW846 8260D
		1,1,1-Trichloroethane	18000	200	ug/l	SW846 8260D
		Trichloroethene ^a	423	4.0	ug/l	SW846 8260D
		1,2,4-Trimethylbenzene ^a	67.7	8.0	ug/l	SW846 8260D
		1,3,5-Trimethylbenzene ^a	31.6	8.0	ug/l	SW846 8260D
		m,p-Xylene ^a	632	4.0	ug/l	SW846 8260D
		o-Xylene ^a	336	4.0	ug/l	SW846 8260D
		Xylene (total) ^a	968	4.0	ug/l	SW846 8260D
JD34909-38 RX-7						
		Chloroform ^a	58.1	50	ug/l	SW846 8260D

Summary of Hits

Job Number: JD34909
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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cis-1,2-Dichloroethene ^a		60.9	50		ug/l	SW846 8260D
Tetrachloroethene		32700	500		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		598	50		ug/l	SW846 8260D

JD34909-39 MW101

Chloroform ^a		138	100		ug/l	SW846 8260D
1,1-Dichloroethene ^a		158	100		ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a		2690	100		ug/l	SW846 8260D
Tetrachloroethene		73200	1000		ug/l	SW846 8260D
1,1,1-Trichloroethane ^a		2840	100		ug/l	SW846 8260D
Trichloroethene ^a		640	100		ug/l	SW846 8260D

JD34909-40 RX20

1,1-Dichloroethane		6.8	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene		359	10		ug/l	SW846 8260D
trans-1,2-Dichloroethene		5.4	1.0		ug/l	SW846 8260D
Tetrachloroethene		145	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane		17.0	1.0		ug/l	SW846 8260D
Trichloroethene		54.0	1.0		ug/l	SW846 8260D
Vinyl chloride		9.7	1.0		ug/l	SW846 8260D

JD34909-41 RX-12

Tetrachloroethene		1.4	1.0		ug/l	SW846 8260D
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JD34909-42 RX-12 DUP

Tetrachloroethene		1.2	1.0		ug/l	SW846 8260D
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JD34909-43 TRIP BLANK

No hits reported in this sample.

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW204		Date Sampled: 11/01/21
Lab Sample ID: JD34909-1		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187052.D	1	11/11/21 13:32	TS	n/a	n/a	V2B8495
Run #2	2B187060.D	10	11/11/21 17:26	TS	n/a	n/a	V2B8495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	3.8	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	179 ^b	10	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	69.7	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	2.4	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	151	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW204	Date Sampled: 11/01/21
Lab Sample ID: JD34909-1	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	19.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	7.8	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	104%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW204		Date Sampled: 11/01/21
Lab Sample ID: JD34909-1		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	97%	80-121%
2037-26-5	Toluene-D8	101%	102%	80-120%
460-00-4	4-Bromofluorobenzene	97%	100%	80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21		
Lab Sample ID: JD34909-2		Date Sampled: 11/01/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187007.D	1	11/10/21 15:02	TS	n/a	n/a	V2B8493
Run #2	2B187006.D	10	11/10/21 14:32	TS	n/a	n/a	V2B8493

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	7.0	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	523 ^b	10	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	50.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	1.1	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	26.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21		Date Sampled: 11/01/21
Lab Sample ID: JD34909-2		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	3.7	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	3.0	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	64.5	1.0	ug/l	
	m,p-Xylene	1.3	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	2.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-21		Date Sampled: 11/01/21
Lab Sample ID: JD34909-2		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	102%	80-121%
2037-26-5	Toluene-D8	102%	100%	80-120%
460-00-4	4-Bromofluorobenzene	97%	100%	80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-1		Date Sampled: 11/01/21
Lab Sample ID: JD34909-3		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B186965.D	1	11/09/21 19:29	TS	n/a	n/a	V2B8491

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-1	Date Sampled:	11/01/21
Lab Sample ID:	JD34909-3	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-1		Date Sampled: 11/01/21
Lab Sample ID: JD34909-3		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-5		Date Sampled: 11/01/21
Lab Sample ID: JD34909-4		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B186966.D	1	11/09/21 19:58	TS	n/a	n/a	V2B8491

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-5	Date Sampled:	11/01/21
Lab Sample ID:	JD34909-4	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-5		Date Sampled: 11/01/21
Lab Sample ID: JD34909-4		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-23		Date Sampled: 11/02/21
Lab Sample ID: JD34909-5		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186967.D	1	11/09/21 20:27	TS	n/a	n/a	V2B8491
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-23		Date Sampled: 11/02/21
Lab Sample ID: JD34909-5		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-23	
Lab Sample ID: JD34909-5	Date Sampled: 11/02/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-03		Date Sampled: 11/02/21
Lab Sample ID: JD34909-6		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187005.D	25	11/10/21 14:03	TS	n/a	n/a	V2B8493
Run #2	2B186978.D	250	11/10/21 01:49	TS	n/a	n/a	V2B8492

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	250	ug/l	
71-43-2	Benzene	ND	13	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	ug/l	
104-51-8	n-Butylbenzene	ND	50	ug/l	
135-98-8	sec-Butylbenzene	ND	50	ug/l	
98-06-6	tert-Butylbenzene	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	292	25	ug/l	
67-66-3	Chloroform	36.8	25	ug/l	
74-87-3	Chloromethane	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	50	ug/l	
106-43-4	p-Chlorotoluene	ND	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	4470 ^c	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethene	1340	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-03	Date Sampled:	11/02/21
Lab Sample ID:	JD34909-6	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	130	ug/l	
74-88-4	Iodomethane	ND	50	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	50	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
127-18-4	Tetrachloroethene	ND	25	ug/l	
108-88-3	Toluene	ND	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	14600 ^c	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
79-01-6	Trichloroethene	ND	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	ug/l	
108-05-4	Vinyl Acetate	ND	250	ug/l	
75-01-4	Vinyl chloride	ND	25	ug/l	
	m,p-Xylene	ND	25	ug/l	
95-47-6	o-Xylene	ND	25	ug/l	
1330-20-7	Xylene (total)	ND	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-03	
Lab Sample ID: JD34909-6	Date Sampled: 11/02/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	97%	80-121%
2037-26-5	Toluene-D8	102%	100%	80-120%
460-00-4	4-Bromofluorobenzene	98%	97%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20		Date Sampled: 11/02/21
Lab Sample ID: JD34909-7		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B186977.D	25	11/10/21 01:20	TS	n/a	n/a	V2B8492
Run #2	2B187012.D	100	11/10/21 17:26	TS	n/a	n/a	V2B8493

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	250	ug/l	
71-43-2	Benzene	ND	13	ug/l	
108-86-1	Bromobenzene	ND	25	ug/l	
74-97-5	Bromochloromethane	ND	25	ug/l	
75-27-4	Bromodichloromethane	ND	25	ug/l	
75-25-2	Bromoform	ND	25	ug/l	
74-83-9	Bromomethane	ND	50	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	ug/l	
104-51-8	n-Butylbenzene	ND	50	ug/l	
135-98-8	sec-Butylbenzene	ND	50	ug/l	
98-06-6	tert-Butylbenzene	ND	50	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	25	ug/l	
108-90-7	Chlorobenzene	ND	25	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	33.9	25	ug/l	
74-87-3	Chloromethane	ND	25	ug/l	
95-49-8	o-Chlorotoluene	ND	50	ug/l	
106-43-4	p-Chlorotoluene	ND	50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	ug/l	
124-48-1	Dibromochloromethane	ND	25	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	518	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-20	Date Sampled:	11/02/21
Lab Sample ID:	JD34909-7	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	ug/l	
100-41-4	Ethylbenzene	ND	25	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	ug/l	
591-78-6	2-Hexanone	ND	130	ug/l	
74-88-4	Iodomethane	ND	50	ug/l	
98-82-8	Isopropylbenzene	ND	25	ug/l	
99-87-6	p-Isopropyltoluene	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	ug/l	
74-95-3	Methylene bromide	ND	25	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
91-20-3	Naphthalene	ND	130	ug/l	
103-65-1	n-Propylbenzene	ND	50	ug/l	
100-42-5	Styrene	ND	25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	ug/l	
127-18-4	Tetrachloroethene	9900 ^c	100	ug/l	
108-88-3	Toluene	ND	25	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	ug/l	
79-01-6	Trichloroethene	252	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	ug/l	
108-05-4	Vinyl Acetate	ND	250	ug/l	
75-01-4	Vinyl chloride	ND	25	ug/l	
	m,p-Xylene	ND	25	ug/l	
95-47-6	o-Xylene	ND	25	ug/l	
1330-20-7	Xylene (total)	ND	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	103%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-20		Date Sampled: 11/02/21
Lab Sample ID: JD34909-7		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	99%	80-121%
2037-26-5	Toluene-D8	103%	103%	80-120%
460-00-4	4-Bromofluorobenzene	98%	99%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 11/02/21
Lab Sample ID: JD34909-8		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B186982.D	1	11/10/21 03:46	TS	n/a	n/a	V2B8492

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.1	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-16	Date Sampled:	11/02/21
Lab Sample ID:	JD34909-8	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	80.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	200	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-16		Date Sampled: 11/02/21
Lab Sample ID: JD34909-8		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 11/02/21
Lab Sample ID: JD34909-9		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186983.D	1	11/10/21 04:15	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 11/02/21
Lab Sample ID: JD34909-9		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	17.7	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	116	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-25		Date Sampled: 11/02/21
Lab Sample ID: JD34909-9		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	101%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 11/02/21
Lab Sample ID: JD34909-10		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186984.D	1	11/10/21 04:44	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 11/02/21
Lab Sample ID: JD34909-10		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	26.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	194	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		Date Sampled: 11/02/21
Lab Sample ID: JD34909-10		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW501		Date Sampled: 11/02/21
Lab Sample ID: JD34909-11		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186985.D	1	11/10/21 05:14	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	23.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW501	Date Sampled:	11/02/21
Lab Sample ID:	JD34909-11	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	62.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	4.2	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	15.9	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW501		Date Sampled: 11/02/21
Lab Sample ID: JD34909-11		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP23		
Lab Sample ID: JD34909-12		Date Sampled: 11/02/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186986.D	1	11/10/21 05:43	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP23		Date Sampled: 11/02/21
Lab Sample ID: JD34909-12		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP23		Date Sampled: 11/02/21
Lab Sample ID: JD34909-12		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW601D		Date Sampled: 11/02/21
Lab Sample ID: JD34909-13		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186987.D	1	11/10/21 06:12	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW601D	Date Sampled:	11/02/21
Lab Sample ID:	JD34909-13	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW601D		Date Sampled: 11/02/21
Lab Sample ID: JD34909-13		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		
Lab Sample ID: JD34909-14		Date Sampled: 11/03/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186988.D	1	11/10/21 06:41	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		Date Sampled: 11/03/21
Lab Sample ID: JD34909-14		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17		Date Sampled: 11/03/21
Lab Sample ID: JD34909-14		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-15		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186989.D	1	11/10/21 07:10	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-15		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-15		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D DUPLICATE		
Lab Sample ID: JD34909-16		Date Sampled: 11/03/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186990.D	1	11/10/21 07:39	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW36D DUPLICATE	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-16	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D DUPLICATE	
Lab Sample ID: JD34909-16	Date Sampled: 11/03/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35		Date Sampled: 11/03/21
Lab Sample ID: JD34909-17		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186991.D	1	11/10/21 08:08	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW35	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-17	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35		Date Sampled: 11/03/21
Lab Sample ID: JD34909-17		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-18		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186992.D	1	11/10/21 08:38	TS	n/a	n/a	V2B8492
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	5.5	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	59.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-18		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	5.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-18		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW401B		Date Sampled: 11/03/21
Lab Sample ID: JD34909-19		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187013.D	1	11/10/21 17:56	TS	n/a	n/a	V2B8493

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW401B	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-19	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW401B		Date Sampled: 11/03/21
Lab Sample ID: JD34909-19		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10		Date Sampled: 11/03/21
Lab Sample ID: JD34909-20		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187014.D	1	11/10/21 18:25	TS	n/a	n/a	V2B8493
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-10	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-20	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	106	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	182	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10		Date Sampled: 11/03/21
Lab Sample ID: JD34909-20		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW208		Date Sampled: 11/03/21
Lab Sample ID: JD34909-21		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B186968.D	1	11/09/21 20:57	TS	n/a	n/a	V2B8491

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW208	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-21	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW208		Date Sampled: 11/03/21
Lab Sample ID: JD34909-21		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34		Date Sampled: 11/03/21
Lab Sample ID: JD34909-22		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186969.D	1	11/09/21 21:26	TS	n/a	n/a	V2B8491
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane ^a	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane ^a	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane ^a	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW34	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-22	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane ^a	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride ^a	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34		Date Sampled: 11/03/21
Lab Sample ID: JD34909-22		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-23		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187064.D	1	11/11/21 19:23	TS	n/a	n/a	V2B8495

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW34D	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-23	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	46.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	87.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34D		Date Sampled: 11/03/21
Lab Sample ID: JD34909-23		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		Date Sampled: 11/03/21
Lab Sample ID: JD34909-24		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187015.D	1	11/10/21 18:54	TS	n/a	n/a	V2B8493

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	2.6	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	112	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		Date Sampled: 11/03/21
Lab Sample ID: JD34909-24		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	167	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	26.5	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	94.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19		Date Sampled: 11/03/21
Lab Sample ID: JD34909-24		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		
Lab Sample ID: JD34909-25		Date Sampled: 11/03/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187016.D	1	11/10/21 19:24	TS	n/a	n/a	V2B8493
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ-18	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-25	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18		Date Sampled: 11/03/21
Lab Sample ID: JD34909-25		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW109		
Lab Sample ID: JD34909-26		Date Sampled: 11/04/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187017.D	1	11/10/21 19:53	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	171	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.5	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW109		Date Sampled: 11/04/21
Lab Sample ID: JD34909-26		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	121	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	50.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW109		Date Sampled: 11/04/21
Lab Sample ID: JD34909-26		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	97%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX28		Date Sampled: 11/04/21
Lab Sample ID: JD34909-27		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187018.D	1	11/10/21 20:22	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX28		Date Sampled: 11/04/21
Lab Sample ID: JD34909-27		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	145	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	81.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX28		Date Sampled: 11/04/21
Lab Sample ID: JD34909-27		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX01		
Lab Sample ID: JD34909-28		Date Sampled: 11/04/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187019.D	50	11/10/21 20:52	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	500	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	3020	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX01	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-28	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
74-88-4	Iodomethane	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	ug/l	
74-95-3	Methylene bromide	ND	50	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene	7620	50	ug/l	
108-88-3	Toluene	ND	50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	88.9	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
79-01-6	Trichloroethene	7440	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
108-05-4	Vinyl Acetate	ND	500	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX01		Date Sampled: 11/04/21
Lab Sample ID: JD34909-28		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	97%		80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW408A		
Lab Sample ID: JD34909-29		Date Sampled: 11/04/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187020.D	1	11/10/21 21:21	TS	n/a	n/a	V2B8493
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.6	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW408A		Date Sampled: 11/04/21
Lab Sample ID: JD34909-29		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	90.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	23.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW408A		Date Sampled: 11/04/21
Lab Sample ID: JD34909-29		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNBSW-14A	
Lab Sample ID: JD34909-30	Date Sampled: 11/03/21
Matrix: AQ - Surface Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187021.D	1	11/10/21 21:51	TS	n/a	n/a	V2B8493
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZNNBSW-14A	Date Sampled:	11/03/21
Lab Sample ID:	JD34909-30	Date Received:	11/05/21
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNBSW-14A	
Lab Sample ID: JD34909-30	Date Sampled: 11/03/21
Matrix: AQ - Surface Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW106		Date Sampled: 11/04/21
Lab Sample ID: JD34909-31		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187028.D	5	11/11/21 01:14	TS	n/a	n/a	V2B8494
Run #2	4D113629.D	100	11/11/21 17:35	BK	n/a	n/a	V4D5054
Run #3	2B187062.D	1000	11/11/21 18:24	TS	n/a	n/a	V2B8495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23900 ^b	1000	ug/l	
71-43-2	Benzene	227	2.5	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	ug/l	
75-25-2	Bromoform	ND	5.0	ug/l	
74-83-9	Bromomethane	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	6200 ^b	1000	ug/l	
104-51-8	n-Butylbenzene	ND	10	ug/l	
135-98-8	sec-Butylbenzene	ND	10	ug/l	
98-06-6	tert-Butylbenzene	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	ug/l	
108-90-7	Chlorobenzene	ND	5.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	14.4	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
95-49-8	o-Chlorotoluene	ND	10	ug/l	
106-43-4	p-Chlorotoluene	ND	10	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	229	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/l	
75-35-4	1,1-Dichloroethene	1630 ^b	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	4170 ^b	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW106	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-31	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethene	30.7	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	625	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	ug/l	
591-78-6	2-Hexanone	ND	25	ug/l	
74-88-4	Iodomethane	ND	10	ug/l	
98-82-8	Isopropylbenzene	16.0	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	630	25	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	386	10	ug/l	
91-20-3	Naphthalene	ND	25	ug/l	
103-65-1	n-Propylbenzene	ND	10	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	
127-18-4	Tetrachloroethene	2220 ^b	100	ug/l	
108-88-3	Toluene	1030 ^b	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^c	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	27400 ^d	1000	ug/l	
79-00-5	1,1,2-Trichloroethane	15.4	5.0	ug/l	
79-01-6	Trichloroethene	1480 ^b	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	98.3	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	31.9	10	ug/l	
108-05-4	Vinyl Acetate	ND	50	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
	m,p-Xylene	1690	5.0	ug/l	
95-47-6	o-Xylene	636	5.0	ug/l	
1330-20-7	Xylene (total)	2330	5.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW106	Date Sampled: 11/04/21
Lab Sample ID: JD34909-31	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	104%	96%	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	104%	98%	80-121%
2037-26-5	Toluene-D8	101%	94%	102%	80-120%
460-00-4	4-Bromofluorobenzene	93%	94%	99%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Result is from Run# 2
- (c) Associated CCV outside of control limits high, sample was ND.
- (d) Result is from Run# 3

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW33		Date Sampled: 11/04/21
Lab Sample ID: JD34909-32		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187053.D	4	11/11/21 14:01	TS	n/a	n/a	V2B8495
Run #2	3D170782.D	40	11/11/21 13:42	NW	n/a	n/a	V3D7248

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	40	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	4.0	ug/l	
74-97-5	Bromochloromethane	ND	4.0	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	8.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	40	ug/l	
104-51-8	n-Butylbenzene	ND	8.0	ug/l	
135-98-8	sec-Butylbenzene	ND	8.0	ug/l	
98-06-6	tert-Butylbenzene	ND	8.0	ug/l	
75-15-0	Carbon disulfide	ND	8.0	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	4.0	ug/l	
67-66-3	Chloroform	4.9	4.0	ug/l	
74-87-3	Chloromethane	ND	4.0	ug/l	
95-49-8	o-Chlorotoluene	ND	8.0	ug/l	
106-43-4	p-Chlorotoluene	ND	8.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	ug/l	
75-71-8	Dichlorodifluoromethane ^b	ND	8.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	57.4	4.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	4.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW33	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-32	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	4.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	4.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	4.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/l	
100-41-4	Ethylbenzene	ND	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	8.0	ug/l	
591-78-6	2-Hexanone	ND	20	ug/l	
74-88-4	Iodomethane	ND	8.0	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	8.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	ug/l	
74-95-3	Methylene bromide	ND	4.0	ug/l	
75-09-2	Methylene chloride	ND	8.0	ug/l	
91-20-3	Naphthalene	ND	20	ug/l	
103-65-1	n-Propylbenzene	ND	8.0	ug/l	
100-42-5	Styrene	ND	4.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/l	
127-18-4	Tetrachloroethene	1200 ^c	40	ug/l	
108-88-3	Toluene	ND	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	ug/l	
71-55-6	1,1,1-Trichloroethane	7.9	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/l	
79-01-6	Trichloroethene	392	4.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	8.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	8.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	8.0	ug/l	
108-05-4	Vinyl Acetate	ND	40	ug/l	
75-01-4	Vinyl chloride	ND	4.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	4.0	ug/l	
1330-20-7	Xylene (total)	ND	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	100%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW33	
Lab Sample ID: JD34909-32	Date Sampled: 11/04/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	106%	80-121%
2037-26-5	Toluene-D8	103%	106%	80-120%
460-00-4	4-Bromofluorobenzene	98%	102%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW403		Date Sampled: 11/04/21
Lab Sample ID: JD34909-33		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187035.D	20	11/11/21 04:37	TS	n/a	n/a	V2B8494
Run #2	2B187061.D	100	11/11/21 17:55	TS	n/a	n/a	V2B8495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	200	ug/l	
71-43-2	Benzene	177	10	ug/l	
108-86-1	Bromobenzene	ND	20	ug/l	
74-97-5	Bromochloromethane	ND	20	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
74-83-9	Bromomethane	ND	40	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	ug/l	
104-51-8	n-Butylbenzene	ND	40	ug/l	
135-98-8	sec-Butylbenzene	ND	40	ug/l	
98-06-6	tert-Butylbenzene	ND	40	ug/l	
75-15-0	Carbon disulfide	ND	40	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	940	20	ug/l	
67-66-3	Chloroform	26.7	20	ug/l	
74-87-3	Chloromethane	ND	20	ug/l	
95-49-8	o-Chlorotoluene	ND	40	ug/l	
106-43-4	p-Chlorotoluene	ND	40	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	ug/l	
75-34-3	1,1-Dichloroethane	4950 ^c	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
75-35-4	1,1-Dichloroethene	781	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	3340	20	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW403	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-33	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	20	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	433	20	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	ug/l	
591-78-6	2-Hexanone	ND	100	ug/l	
74-88-4	Iodomethane	ND	40	ug/l	
98-82-8	Isopropylbenzene	ND	20	ug/l	
99-87-6	p-Isopropyltoluene	ND	40	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	ug/l	
74-95-3	Methylene bromide	ND	20	ug/l	
75-09-2	Methylene chloride	63.6	40	ug/l	
91-20-3	Naphthalene	ND	100	ug/l	
103-65-1	n-Propylbenzene	ND	40	ug/l	
100-42-5	Styrene	ND	20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethene	ND	20	ug/l	
108-88-3	Toluene	507	20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	20	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^d	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	552	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
79-01-6	Trichloroethene	ND	20	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	ug/l	
95-63-6	1,2,4-Trimethylbenzene	80.8	40	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	40	ug/l	
108-05-4	Vinyl Acetate	ND	200	ug/l	
75-01-4	Vinyl chloride	290	20	ug/l	
	m,p-Xylene	1420	20	ug/l	
95-47-6	o-Xylene	679	20	ug/l	
1330-20-7	Xylene (total)	2100	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW403		Date Sampled: 11/04/21
Lab Sample ID: JD34909-33		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%	100%	80-121%
2037-26-5	Toluene-D8	101%	101%	80-120%
460-00-4	4-Bromofluorobenzene	94%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-7		
Lab Sample ID: JD34909-34		Date Sampled: 11/04/21
Matrix: AQ - Surface Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187036.D	1	11/11/21 05:06	TS	n/a	n/a	V2B8494

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.7	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-7	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-34	Date Received:	11/05/21
Matrix:	AQ - Surface Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^b	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-7		Date Sampled: 11/04/21
Lab Sample ID: JD34909-34		Date Received: 11/05/21
Matrix: AQ - Surface Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW 111		Date Sampled: 11/04/21
Lab Sample ID: JD34909-35		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187037.D	100	11/11/21 05:35	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
108-86-1	Bromobenzene	ND	100	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
104-51-8	n-Butylbenzene	ND	200	ug/l	
135-98-8	sec-Butylbenzene	ND	200	ug/l	
98-06-6	tert-Butylbenzene	ND	200	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	147	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
95-49-8	o-Chlorotoluene	ND	200	ug/l	
106-43-4	p-Chlorotoluene	ND	200	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	192	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	861	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 111	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-35	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
74-88-4	Iodomethane	ND	200	ug/l	
98-82-8	Isopropylbenzene	ND	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
74-95-3	Methylene bromide	ND	100	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
91-20-3	Naphthalene	ND	500	ug/l	
103-65-1	n-Propylbenzene	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	14900	100	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^b	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	5910	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	6490	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	200	ug/l	
108-05-4	Vinyl Acetate	ND	1000	ug/l	
75-01-4	Vinyl chloride	ND	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW 111		Date Sampled: 11/04/21
Lab Sample ID: JD34909-35		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	99%		80-121%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNB 11A		Date Sampled: 11/04/21
Lab Sample ID: JD34909-36		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187038.D	1	11/11/21 06:04	TS	n/a	n/a	V2B8494

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZNNB 11A	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-36	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^b	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNB 11A	
Lab Sample ID: JD34909-36	Date Sampled: 11/04/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	101%		80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-13	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-37	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187039.D	4	11/11/21 06:33	TS	n/a	n/a	V2B8494
Run #2	2B187057.D	200	11/11/21 15:57	TS	n/a	n/a	V2B8495
Run #3	2B187063.D	1000	11/11/21 18:54	TS	n/a	n/a	V2B8495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	40	ug/l	
71-43-2	Benzene	18.2	2.0	ug/l	
108-86-1	Bromobenzene	ND	4.0	ug/l	
74-97-5	Bromochloromethane	ND	4.0	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	8.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	40	ug/l	
104-51-8	n-Butylbenzene	ND	8.0	ug/l	
135-98-8	sec-Butylbenzene	ND	8.0	ug/l	
98-06-6	tert-Butylbenzene	ND	8.0	ug/l	
75-15-0	Carbon disulfide	ND	8.0	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	4.0	ug/l	
67-66-3	Chloroform	6.8	4.0	ug/l	
74-87-3	Chloromethane	ND	4.0	ug/l	
95-49-8	o-Chlorotoluene	ND	8.0	ug/l	
106-43-4	p-Chlorotoluene	ND	8.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	ug/l	
75-34-3	1,1-Dichloroethane	26.6	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/l	
75-35-4	1,1-Dichloroethene	527	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	235	4.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-13	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-37	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
156-60-5	trans-1,2-Dichloroethene	ND	4.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	4.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	4.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	4.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/l	
100-41-4	Ethylbenzene	235	4.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	8.0	ug/l	
591-78-6	2-Hexanone	ND	20	ug/l	
74-88-4	Iodomethane	ND	8.0	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	8.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	ug/l	
74-95-3	Methylene bromide	ND	4.0	ug/l	
75-09-2	Methylene chloride	19.5	8.0	ug/l	
91-20-3	Naphthalene	ND	20	ug/l	
103-65-1	n-Propylbenzene	ND	8.0	ug/l	
100-42-5	Styrene	ND	4.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/l	
127-18-4	Tetrachloroethene	50400 ^c	1000	ug/l	
108-88-3	Toluene	196	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	4.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^d	ND	4.0	ug/l	
71-55-6	1,1,1-Trichloroethane	18000 ^e	200	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/l	
79-01-6	Trichloroethene	423	4.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	8.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	67.7	8.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	31.6	8.0	ug/l	
108-05-4	Vinyl Acetate	ND	40	ug/l	
75-01-4	Vinyl chloride	ND	4.0	ug/l	
	m,p-Xylene	632	4.0	ug/l	
95-47-6	o-Xylene	336	4.0	ug/l	
1330-20-7	Xylene (total)	968	4.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-13		Date Sampled: 11/04/21
Lab Sample ID: JD34909-37		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	102%	107%	105%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	102%	101%	80-121%
2037-26-5	Toluene-D8	104%	105%	103%	80-120%
460-00-4	4-Bromofluorobenzene	93%	99%	97%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 3
- (d) Associated CCV outside of control limits high, sample was ND.
- (e) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-7		Date Sampled: 11/04/21
Lab Sample ID: JD34909-38		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187043.D	50	11/11/21 08:29	TS	n/a	n/a	V2B8494
Run #2	2B187034.D	500	11/11/21 04:08	TS	n/a	n/a	V2B8494

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	500	ug/l	
71-43-2	Benzene	ND	25	ug/l	
108-86-1	Bromobenzene	ND	50	ug/l	
74-97-5	Bromochloromethane	ND	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	ug/l	
75-25-2	Bromoform	ND	50	ug/l	
74-83-9	Bromomethane	ND	100	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	ug/l	
104-51-8	n-Butylbenzene	ND	100	ug/l	
135-98-8	sec-Butylbenzene	ND	100	ug/l	
98-06-6	tert-Butylbenzene	ND	100	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	50	ug/l	
108-90-7	Chlorobenzene	ND	50	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	58.1	50	ug/l	
74-87-3	Chloromethane	ND	50	ug/l	
95-49-8	o-Chlorotoluene	ND	100	ug/l	
106-43-4	p-Chlorotoluene	ND	100	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/l	
124-48-1	Dibromochloromethane	ND	50	ug/l	
106-93-4	1,2-Dibromoethane	ND	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	60.9	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-7	Date Sampled:	11/04/21
Lab Sample ID:	JD34909-38	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	50	ug/l	
594-20-7	2,2-Dichloropropane	ND	50	ug/l	
563-58-6	1,1-Dichloropropene	ND	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	ug/l	
100-41-4	Ethylbenzene	ND	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	100	ug/l	
591-78-6	2-Hexanone	ND	250	ug/l	
74-88-4	Iodomethane	ND	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	ug/l	
74-95-3	Methylene bromide	ND	50	ug/l	
75-09-2	Methylene chloride	ND	100	ug/l	
91-20-3	Naphthalene	ND	250	ug/l	
103-65-1	n-Propylbenzene	ND	100	ug/l	
100-42-5	Styrene	ND	50	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ug/l	
127-18-4	Tetrachloroethene	32700 ^c	500	ug/l	
108-88-3	Toluene	ND	50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	50	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^d	ND	50	ug/l	
71-55-6	1,1,1-Trichloroethane	598	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	ug/l	
79-01-6	Trichloroethene	ND	50	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/l	
108-05-4	Vinyl Acetate	ND	500	ug/l	
75-01-4	Vinyl chloride	ND	50	ug/l	
	m,p-Xylene	ND	50	ug/l	
95-47-6	o-Xylene	ND	50	ug/l	
1330-20-7	Xylene (total)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-7		Date Sampled: 11/04/21
Lab Sample ID: JD34909-38		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	100%	80-121%
2037-26-5	Toluene-D8	103%	103%	80-120%
460-00-4	4-Bromofluorobenzene	100%	100%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW101		Date Sampled: 11/04/21
Lab Sample ID: JD34909-39		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187030.D	100	11/11/21 02:12	TS	n/a	n/a	V2B8494
Run #2	2B187033.D	1000	11/11/21 03:39	TS	n/a	n/a	V2B8494

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^b	ND	1000	ug/l	
71-43-2	Benzene	ND	50	ug/l	
108-86-1	Bromobenzene	ND	100	ug/l	
74-97-5	Bromochloromethane	ND	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	ug/l	
75-25-2	Bromoform	ND	100	ug/l	
74-83-9	Bromomethane	ND	200	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	ug/l	
104-51-8	n-Butylbenzene	ND	200	ug/l	
135-98-8	sec-Butylbenzene	ND	200	ug/l	
98-06-6	tert-Butylbenzene	ND	200	ug/l	
75-15-0	Carbon disulfide	ND	200	ug/l	
56-23-5	Carbon tetrachloride	ND	100	ug/l	
108-90-7	Chlorobenzene	ND	100	ug/l	
75-00-3	Chloroethane	ND	100	ug/l	
67-66-3	Chloroform	138	100	ug/l	
74-87-3	Chloromethane	ND	100	ug/l	
95-49-8	o-Chlorotoluene	ND	200	ug/l	
106-43-4	p-Chlorotoluene	ND	200	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	ug/l	
124-48-1	Dibromochloromethane	ND	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	ug/l	
75-35-4	1,1-Dichloroethene	158	100	ug/l	
156-59-2	cis-1,2-Dichloroethene	2690	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW101		Date Sampled: 11/04/21
Lab Sample ID: JD34909-39		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	100	ug/l	
594-20-7	2,2-Dichloropropane	ND	100	ug/l	
563-58-6	1,1-Dichloropropene	ND	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/l	
100-41-4	Ethylbenzene	ND	100	ug/l	
87-68-3	Hexachlorobutadiene	ND	200	ug/l	
591-78-6	2-Hexanone	ND	500	ug/l	
74-88-4	Iodomethane	ND	200	ug/l	
98-82-8	Isopropylbenzene	ND	100	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	ug/l	
74-95-3	Methylene bromide	ND	100	ug/l	
75-09-2	Methylene chloride	ND	200	ug/l	
91-20-3	Naphthalene	ND	500	ug/l	
103-65-1	n-Propylbenzene	ND	200	ug/l	
100-42-5	Styrene	ND	100	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/l	
127-18-4	Tetrachloroethene	73200 ^c	1000	ug/l	
108-88-3	Toluene	ND	100	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	ug/l	
120-82-1	1,2,4-Trichlorobenzene ^d	ND	100	ug/l	
71-55-6	1,1,1-Trichloroethane	2840	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	ug/l	
79-01-6	Trichloroethene	640	100	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	200	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	200	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	200	ug/l	
108-05-4	Vinyl Acetate	ND	1000	ug/l	
75-01-4	Vinyl chloride	ND	100	ug/l	
	m,p-Xylene	ND	100	ug/l	
95-47-6	o-Xylene	ND	100	ug/l	
1330-20-7	Xylene (total)	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW101		Date Sampled: 11/04/21
Lab Sample ID: JD34909-39		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%	98%	80-121%
2037-26-5	Toluene-D8	101%	102%	80-120%
460-00-4	4-Bromofluorobenzene	99%	101%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (c) Result is from Run# 2
- (d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX20		
Lab Sample ID: JD34909-40		Date Sampled: 11/05/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187055.D	1	11/11/21 14:59	TS	n/a	n/a	V2B8495
Run #2	2B187054.D	10	11/11/21 14:30	TS	n/a	n/a	V2B8495

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	6.8	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	359 ^b	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.4	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX20		Date Sampled: 11/05/21
Lab Sample ID: JD34909-40		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	145	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	17.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	54.0	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	9.7	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX20		Date Sampled: 11/05/21
Lab Sample ID: JD34909-40		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	101%	80-121%
2037-26-5	Toluene-D8	104%	102%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	80-120%

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- (b) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12		
Lab Sample ID: JD34909-41		Date Sampled: 11/05/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	2B187065.D	1	11/11/21 19:52	TS	n/a	n/a	V2B8495

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-12	Date Sampled:	11/05/21
Lab Sample ID:	JD34909-41	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.4	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12		Date Sampled: 11/05/21
Lab Sample ID: JD34909-41		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12 DUP		Date Sampled: 11/05/21
Lab Sample ID: JD34909-42		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187066.D	1	11/11/21 20:22	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RX-12 DUP	Date Sampled:	11/05/21
Lab Sample ID:	JD34909-42	Date Received:	11/05/21
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.2	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12 DUP	
Lab Sample ID: JD34909-42	Date Sampled: 11/05/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	100%		80-121%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK		Date Sampled: 11/05/21
Lab Sample ID: JD34909-43		Date Received: 11/05/21
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187067.D	1	11/11/21 20:51	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone ^a	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane ^a	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK		Date Sampled: 11/05/21
Lab Sample ID: JD34909-43		Date Received: 11/05/21
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		85-118%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK	
Lab Sample ID: JD34909-43	Date Sampled: 11/05/21
Matrix: AQ - Trip Blank Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

Form containing client/reporting information, project information, collection data table, data deliverable information, and sample custody tracking details.





CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusua

Form containing client/reporting information, project details, collection table with sample IDs (e.g., MW3A D, RX-19), dates, times, and matrices. Includes sections for data deliverable information, rush options, and a chain of custody signature log at the bottom.

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SGS Sample Receipt Summary

Job Number: JD34909

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 11/5/2021 2:30:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (0.9);

Cooler Temps (Corrected) °C: Cooler 1: (0.9);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17

JD34909: Chain of Custody

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MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-MB	2B186949.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-MB	2B186949.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-MB	2B186949.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 85-118%
17060-07-0	1,2-Dichloroethane-D4	100% 80-121%
2037-26-5	Toluene-D8	99% 80-120%
460-00-4	4-Bromofluorobenzene	98% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

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Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-MB	2B186976.D	1	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-MB	2B186976.D	1	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-MB	2B186976.D	1	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 85-118%
17060-07-0	1,2-Dichloroethane-D4	98% 80-121%
2037-26-5	Toluene-D8	100% 80-120%
460-00-4	4-Bromofluorobenzene	98% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-MB	2B187003.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-MB	2B187003.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-MB	2B187003.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	80-121%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-MB	2B187027.D	1	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-MB	2B187027.D	1	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-MB	2B187027.D	1	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 85-118%
17060-07-0	1,2-Dichloroethane-D4	102% 80-121%
2037-26-5	Toluene-D8	102% 80-120%
460-00-4	4-Bromofluorobenzene	98% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7248-MB	3D170778.D	1	11/11/21	NW	n/a	n/a	V3D7248

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-32

CAS No.	Compound	Result	RL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	85-118%
17060-07-0	1,2-Dichloroethane-D4	107%	80-121%
2037-26-5	Toluene-D8	104%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5054-MB	4D113617.D	1	11/11/21	BK	n/a	n/a	V4D5054

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 85-118%
17060-07-0	1,2-Dichloroethane-D4	105% 80-121%
2037-26-5	Toluene-D8	95% 80-120%
460-00-4	4-Bromofluorobenzene	96% 80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-MB	2B187051.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-MB	2B187051.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

5.1.7
5

Method Blank Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-MB	2B187051.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	80-121%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-BS	2B186947.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	176	88	63-137
71-43-2	Benzene	50	45.5	91	78-117
108-86-1	Bromobenzene	50	45.3	91	82-121
74-97-5	Bromochloromethane	50	45.7	91	83-124
75-27-4	Bromodichloromethane	50	46.0	92	83-123
75-25-2	Bromoform	50	45.4	91	80-140
74-83-9	Bromomethane	50	35.0	70	26-167
78-93-3	2-Butanone (MEK)	200	201	101	73-135
104-51-8	n-Butylbenzene	50	52.2	104	78-126
135-98-8	sec-Butylbenzene	50	47.4	95	78-122
98-06-6	tert-Butylbenzene	50	47.7	95	77-122
75-15-0	Carbon disulfide	50	45.8	92	60-131
56-23-5	Carbon tetrachloride	50	45.7	91	75-127
108-90-7	Chlorobenzene	50	45.2	90	83-115
75-00-3	Chloroethane	50	39.2	78	61-135
67-66-3	Chloroform	50	42.8	86	76-118
74-87-3	Chloromethane	50	35.6	71	46-144
95-49-8	o-Chlorotoluene	50	46.6	93	80-120
106-43-4	p-Chlorotoluene	50	42.8	86	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	49.5	99	75-135
124-48-1	Dibromochloromethane	50	43.7	87	84-128
106-93-4	1,2-Dibromoethane	50	45.5	91	82-129
95-50-1	1,2-Dichlorobenzene	50	46.2	92	85-117
541-73-1	1,3-Dichlorobenzene	50	43.6	87	83-116
106-46-7	1,4-Dichlorobenzene	50	44.5	89	82-115
75-71-8	Dichlorodifluoromethane	50	37.8	76	49-153
75-34-3	1,1-Dichloroethane	50	45.6	91	75-122
107-06-2	1,2-Dichloroethane	50	41.4	83	74-116
75-35-4	1,1-Dichloroethene	50	44.9	90	68-129
156-59-2	cis-1,2-Dichloroethene	50	44.9	90	78-120
156-60-5	trans-1,2-Dichloroethene	50	44.6	89	74-125
78-87-5	1,2-Dichloropropane	50	46.3	93	80-120
142-28-9	1,3-Dichloropropane	50	45.0	90	82-116
594-20-7	2,2-Dichloropropane	50	47.6	95	70-128
563-58-6	1,1-Dichloropropene	50	45.8	92	75-121
10061-01-5	cis-1,3-Dichloropropene	50	46.5	93	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-BS	2B186947.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	46.9	94	84-124
100-41-4	Ethylbenzene	50	43.8	88	80-115
87-68-3	Hexachlorobutadiene	50	48.7	97	68-137
591-78-6	2-Hexanone	200	186	93	74-132
74-88-4	Iodomethane	50	45.7	91	10-200
98-82-8	Isopropylbenzene	50	45.4	91	79-120
99-87-6	p-Isopropyltoluene	50	47.9	96	80-122
1634-04-4	Methyl Tert Butyl Ether	50	42.7	85	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	184	92	77-129
74-95-3	Methylene bromide	50	43.8	88	83-121
75-09-2	Methylene chloride	50	44.8	90	74-125
91-20-3	Naphthalene	50	49.0	98	73-138
103-65-1	n-Propylbenzene	50	45.5	91	78-117
100-42-5	Styrene	50	45.6	91	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	47.1	94	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	46.6	93	78-122
127-18-4	Tetrachloroethene	50	45.0	90	75-125
108-88-3	Toluene	50	45.3	91	80-115
87-61-6	1,2,3-Trichlorobenzene	50	52.1	104	73-140
120-82-1	1,2,4-Trichlorobenzene	50	53.5	107	77-137
71-55-6	1,1,1-Trichloroethane	50	47.2	94	77-124
79-00-5	1,1,2-Trichloroethane	50	45.4	91	83-118
79-01-6	Trichloroethene	50	46.8	94	80-123
75-69-4	Trichlorofluoromethane	50	38.8	78	71-134
96-18-4	1,2,3-Trichloropropane	50	43.4	87	80-121
95-63-6	1,2,4-Trimethylbenzene	50	44.8	90	81-119
108-67-8	1,3,5-Trimethylbenzene	50	44.9	90	79-120
108-05-4	Vinyl Acetate	50	57.8	116	77-131
75-01-4	Vinyl chloride	50	38.5	77	56-138
	m,p-Xylene	100	90.2	90	81-118
95-47-6	o-Xylene	50	45.3	91	81-119
1330-20-7	Xylene (total)	150	135	90	81-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-BS	2B186947.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-BS	2B186974.D	1	11/09/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	189	95	63-137
71-43-2	Benzene	50	51.9	104	78-117
108-86-1	Bromobenzene	50	51.2	102	82-121
74-97-5	Bromochloromethane	50	51.3	103	83-124
75-27-4	Bromodichloromethane	50	51.2	102	83-123
75-25-2	Bromoform	50	50.3	101	80-140
74-83-9	Bromomethane	50	49.5	99	26-167
78-93-3	2-Butanone (MEK)	200	211	106	73-135
104-51-8	n-Butylbenzene	50	59.5	119	78-126
135-98-8	sec-Butylbenzene	50	54.5	109	78-122
98-06-6	tert-Butylbenzene	50	56.1	112	77-122
75-15-0	Carbon disulfide	50	51.6	103	60-131
56-23-5	Carbon tetrachloride	50	52.6	105	75-127
108-90-7	Chlorobenzene	50	50.5	101	83-115
75-00-3	Chloroethane	50	53.7	107	61-135
67-66-3	Chloroform	50	49.9	100	76-118
74-87-3	Chloromethane	50	50.4	101	46-144
95-49-8	o-Chlorotoluene	50	53.6	107	80-120
106-43-4	p-Chlorotoluene	50	48.9	98	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	55.8	112	75-135
124-48-1	Dibromochloromethane	50	48.2	96	84-128
106-93-4	1,2-Dibromoethane	50	50.1	100	82-129
95-50-1	1,2-Dichlorobenzene	50	52.8	106	85-117
541-73-1	1,3-Dichlorobenzene	50	49.4	99	83-116
106-46-7	1,4-Dichlorobenzene	50	50.4	101	82-115
75-71-8	Dichlorodifluoromethane	50	47.8	96	49-153
75-34-3	1,1-Dichloroethane	50	51.3	103	75-122
107-06-2	1,2-Dichloroethane	50	45.8	92	74-116
75-35-4	1,1-Dichloroethene	50	52.0	104	68-129
156-59-2	cis-1,2-Dichloroethene	50	50.2	100	78-120
156-60-5	trans-1,2-Dichloroethene	50	50.6	101	74-125
78-87-5	1,2-Dichloropropane	50	51.9	104	80-120
142-28-9	1,3-Dichloropropane	50	49.9	100	82-116
594-20-7	2,2-Dichloropropane	50	50.0	100	70-128
563-58-6	1,1-Dichloropropene	50	51.6	103	75-121
10061-01-5	cis-1,3-Dichloropropene	50	51.4	103	84-123

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-BS	2B186974.D	1	11/09/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	50.6	101	84-124
100-41-4	Ethylbenzene	50	49.2	98	80-115
87-68-3	Hexachlorobutadiene	50	55.7	111	68-137
591-78-6	2-Hexanone	200	194	97	74-132
74-88-4	Iodomethane	50	52.1	104	10-200
98-82-8	Isopropylbenzene	50	51.5	103	79-120
99-87-6	p-Isopropyltoluene	50	55.5	111	80-122
1634-04-4	Methyl Tert Butyl Ether	50	47.8	96	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	204	102	77-129
74-95-3	Methylene bromide	50	48.2	96	83-121
75-09-2	Methylene chloride	50	50.6	101	74-125
91-20-3	Naphthalene	50	54.6	109	73-138
103-65-1	n-Propylbenzene	50	52.0	104	78-117
100-42-5	Styrene	50	50.9	102	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	52.4	105	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	50.8	102	78-122
127-18-4	Tetrachloroethene	50	51.0	102	75-125
108-88-3	Toluene	50	51.4	103	80-115
87-61-6	1,2,3-Trichlorobenzene	50	57.4	115	73-140
120-82-1	1,2,4-Trichlorobenzene	50	60.8	122	77-137
71-55-6	1,1,1-Trichloroethane	50	54.4	109	77-124
79-00-5	1,1,2-Trichloroethane	50	50.7	101	83-118
79-01-6	Trichloroethene	50	55.3	111	80-123
75-69-4	Trichlorofluoromethane	50	58.8	118	71-134
96-18-4	1,2,3-Trichloropropane	50	48.2	96	80-121
95-63-6	1,2,4-Trimethylbenzene	50	51.5	103	81-119
108-67-8	1,3,5-Trimethylbenzene	50	51.6	103	79-120
108-05-4	Vinyl Acetate	50	54.9	110	77-131
75-01-4	Vinyl chloride	50	52.9	106	56-138
	m,p-Xylene	100	100	100	81-118
95-47-6	o-Xylene	50	51.1	102	81-119
1330-20-7	Xylene (total)	150	152	101	81-118

* = Outside of Control Limits.

5.2.2
5

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-BS	2B186974.D	1	11/09/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	92%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-BS	2B187001.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	128	64	63-137
71-43-2	Benzene	50	49.9	100	78-117
108-86-1	Bromobenzene	50	48.8	98	82-121
74-97-5	Bromochloromethane	50	47.9	96	83-124
75-27-4	Bromodichloromethane	50	49.5	99	83-123
75-25-2	Bromoform	50	47.2	94	80-140
74-83-9	Bromomethane	50	51.2	102	26-167
78-93-3	2-Butanone (MEK)	200	169	85	73-135
104-51-8	n-Butylbenzene	50	57.1	114	78-126
135-98-8	sec-Butylbenzene	50	52.4	105	78-122
98-06-6	tert-Butylbenzene	50	52.4	105	77-122
75-15-0	Carbon disulfide	50	50.9	102	60-131
56-23-5	Carbon tetrachloride	50	50.1	100	75-127
108-90-7	Chlorobenzene	50	49.1	98	83-115
75-00-3	Chloroethane	50	57.0	114	61-135
67-66-3	Chloroform	50	46.1	92	76-118
74-87-3	Chloromethane	50	51.1	102	46-144
95-49-8	o-Chlorotoluene	50	50.9	102	80-120
106-43-4	p-Chlorotoluene	50	46.7	93	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	50.7	101	75-135
124-48-1	Dibromochloromethane	50	46.0	92	84-128
106-93-4	1,2-Dibromoethane	50	47.7	95	82-129
95-50-1	1,2-Dichlorobenzene	50	49.4	99	85-117
541-73-1	1,3-Dichlorobenzene	50	46.8	94	83-116
106-46-7	1,4-Dichlorobenzene	50	47.9	96	82-115
75-71-8	Dichlorodifluoromethane	50	48.5	97	49-153
75-34-3	1,1-Dichloroethane	50	49.3	99	75-122
107-06-2	1,2-Dichloroethane	50	43.4	87	74-116
75-35-4	1,1-Dichloroethene	50	49.1	98	68-129
156-59-2	cis-1,2-Dichloroethene	50	47.7	95	78-120
156-60-5	trans-1,2-Dichloroethene	50	48.7	97	74-125
78-87-5	1,2-Dichloropropane	50	50.9	102	80-120
142-28-9	1,3-Dichloropropane	50	47.9	96	82-116
594-20-7	2,2-Dichloropropane	50	52.1	104	70-128
563-58-6	1,1-Dichloropropene	50	49.9	100	75-121
10061-01-5	cis-1,3-Dichloropropene	50	50.5	101	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-BS	2B187001.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	49.5	99	84-124
100-41-4	Ethylbenzene	50	47.9	96	80-115
87-68-3	Hexachlorobutadiene	50	53.6	107	68-137
591-78-6	2-Hexanone	200	159	80	74-132
74-88-4	Iodomethane	50	49.8	100	10-200
98-82-8	Isopropylbenzene	50	49.4	99	79-120
99-87-6	p-Isopropyltoluene	50	52.9	106	80-122
1634-04-4	Methyl Tert Butyl Ether	50	45.4	91	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	191	96	77-129
74-95-3	Methylene bromide	50	46.1	92	83-121
75-09-2	Methylene chloride	50	48.1	96	74-125
91-20-3	Naphthalene	50	50.4	101	73-138
103-65-1	n-Propylbenzene	50	49.8	100	78-117
100-42-5	Styrene	50	49.3	99	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	50.1	100	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	48.0	96	78-122
127-18-4	Tetrachloroethene	50	49.9	100	75-125
108-88-3	Toluene	50	49.6	99	80-115
87-61-6	1,2,3-Trichlorobenzene	50	54.8	110	73-140
120-82-1	1,2,4-Trichlorobenzene	50	57.1	114	77-137
71-55-6	1,1,1-Trichloroethane	50	51.5	103	77-124
79-00-5	1,1,2-Trichloroethane	50	48.5	97	83-118
79-01-6	Trichloroethene	50	51.4	103	80-123
75-69-4	Trichlorofluoromethane	50	54.4	109	71-134
96-18-4	1,2,3-Trichloropropane	50	45.5	91	80-121
95-63-6	1,2,4-Trimethylbenzene	50	48.9	98	81-119
108-67-8	1,3,5-Trimethylbenzene	50	49.1	98	79-120
108-05-4	Vinyl Acetate	50	58.5	117	77-131
75-01-4	Vinyl chloride	50	54.9	110	56-138
	m,p-Xylene	100	97.8	98	81-118
95-47-6	o-Xylene	50	49.1	98	81-119
1330-20-7	Xylene (total)	150	147	98	81-118

* = Outside of Control Limits.

5.2.3
5

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-BS	2B187001.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-BS	2B187025.D	1	11/10/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	206	103	63-137
71-43-2	Benzene	50	51.4	103	78-117
108-86-1	Bromobenzene	50	50.1	100	82-121
74-97-5	Bromochloromethane	50	50.2	100	83-124
75-27-4	Bromodichloromethane	50	52.2	104	83-123
75-25-2	Bromoform	50	51.2	102	80-140
74-83-9	Bromomethane	50	48.0	96	26-167
78-93-3	2-Butanone (MEK)	200	217	109	73-135
104-51-8	n-Butylbenzene	50	57.4	115	78-126
135-98-8	sec-Butylbenzene	50	52.8	106	78-122
98-06-6	tert-Butylbenzene	50	52.8	106	77-122
75-15-0	Carbon disulfide	50	50.4	101	60-131
56-23-5	Carbon tetrachloride	50	51.2	102	75-127
108-90-7	Chlorobenzene	50	50.2	100	83-115
75-00-3	Chloroethane	50	53.5	107	61-135
67-66-3	Chloroform	50	48.6	97	76-118
74-87-3	Chloromethane	50	48.0	96	46-144
95-49-8	o-Chlorotoluene	50	51.4	103	80-120
106-43-4	p-Chlorotoluene	50	47.4	95	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	54.2	108	75-135
124-48-1	Dibromochloromethane	50	49.3	99	84-128
106-93-4	1,2-Dibromoethane	50	50.8	102	82-129
95-50-1	1,2-Dichlorobenzene	50	51.4	103	85-117
541-73-1	1,3-Dichlorobenzene	50	47.8	96	83-116
106-46-7	1,4-Dichlorobenzene	50	49.1	98	82-115
75-71-8	Dichlorodifluoromethane	50	46.1	92	49-153
75-34-3	1,1-Dichloroethane	50	51.3	103	75-122
107-06-2	1,2-Dichloroethane	50	46.2	92	74-116
75-35-4	1,1-Dichloroethene	50	50.6	101	68-129
156-59-2	cis-1,2-Dichloroethene	50	49.6	99	78-120
156-60-5	trans-1,2-Dichloroethene	50	49.6	99	74-125
78-87-5	1,2-Dichloropropane	50	52.6	105	80-120
142-28-9	1,3-Dichloropropane	50	50.6	101	82-116
594-20-7	2,2-Dichloropropane	50	49.4	99	70-128
563-58-6	1,1-Dichloropropene	50	49.8	100	75-121
10061-01-5	cis-1,3-Dichloropropene	50	52.2	104	84-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-BS	2B187025.D	1	11/10/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	51.3	103	84-124
100-41-4	Ethylbenzene	50	48.5	97	80-115
87-68-3	Hexachlorobutadiene	50	53.0	106	68-137
591-78-6	2-Hexanone	200	202	101	74-132
74-88-4	Iodomethane	50	50.4	101	10-200
98-82-8	Isopropylbenzene	50	50.6	101	79-120
99-87-6	p-Isopropyltoluene	50	52.9	106	80-122
1634-04-4	Methyl Tert Butyl Ether	50	48.0	96	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	212	106	77-129
74-95-3	Methylene bromide	50	49.2	98	83-121
75-09-2	Methylene chloride	50	50.1	100	74-125
91-20-3	Naphthalene	50	53.0	106	73-138
103-65-1	n-Propylbenzene	50	50.4	101	78-117
100-42-5	Styrene	50	50.6	101	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	52.1	104	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	52.1	104	78-122
127-18-4	Tetrachloroethene	50	48.8	98	75-125
108-88-3	Toluene	50	49.8	100	80-115
87-61-6	1,2,3-Trichlorobenzene	50	56.2	112	73-140
120-82-1	1,2,4-Trichlorobenzene	50	57.9	116	77-137
71-55-6	1,1,1-Trichloroethane	50	53.7	107	77-124
79-00-5	1,1,2-Trichloroethane	50	50.9	102	83-118
79-01-6	Trichloroethene	50	53.3	107	80-123
75-69-4	Trichlorofluoromethane	50	53.1	106	71-134
96-18-4	1,2,3-Trichloropropane	50	49.7	99	80-121
95-63-6	1,2,4-Trimethylbenzene	50	49.7	99	81-119
108-67-8	1,3,5-Trimethylbenzene	50	49.9	100	79-120
108-05-4	Vinyl Acetate	50	61.1	122	77-131
75-01-4	Vinyl chloride	50	52.0	104	56-138
	m,p-Xylene	100	99.6	100	81-118
95-47-6	o-Xylene	50	50.7	101	81-119
1330-20-7	Xylene (total)	150	150	100	81-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-BS	2B187025.D	1	11/10/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	96%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7248-BS	3D170776.D	1	11/11/21	NW	n/a	n/a	V3D7248

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-32

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
127-18-4	Tetrachloroethene	50	49.8	100	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	107%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D5054-BS	4D113615.D	1	11/11/21	BK	n/a	n/a	V4D5054

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	227	114	63-137
78-93-3	2-Butanone (MEK)	200	216	108	73-135
75-35-4	1,1-Dichloroethene	50	44.1	88	68-129
156-59-2	cis-1,2-Dichloroethene	50	45.9	92	78-120
127-18-4	Tetrachloroethene	50	49.9	100	75-125
108-88-3	Toluene	50	46.0	92	80-115
79-01-6	Trichloroethene	50	47.3	95	80-123

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	80-121%
2037-26-5	Toluene-D8	94%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-BS	2B187048.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	134	67	63-137
71-43-2	Benzene	50	48.9	98	78-117
108-86-1	Bromobenzene	50	48.2	96	82-121
74-97-5	Bromochloromethane	50	49.5	99	83-124
75-27-4	Bromodichloromethane	50	49.2	98	83-123
75-25-2	Bromoform	50	49.5	99	80-140
74-83-9	Bromomethane	50	46.6	93	26-167
78-93-3	2-Butanone (MEK)	200	178	89	73-135
104-51-8	n-Butylbenzene	50	56.1	112	78-126
135-98-8	sec-Butylbenzene	50	50.3	101	78-122
98-06-6	tert-Butylbenzene	50	50.2	100	77-122
75-15-0	Carbon disulfide	50	48.4	97	60-131
56-23-5	Carbon tetrachloride	50	49.2	98	75-127
108-90-7	Chlorobenzene	50	48.6	97	83-115
75-00-3	Chloroethane	50	53.0	106	61-135
67-66-3	Chloroform	50	47.1	94	76-118
74-87-3	Chloromethane	50	47.8	96	46-144
95-49-8	o-Chlorotoluene	50	48.9	98	80-120
106-43-4	p-Chlorotoluene	50	45.6	91	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	52.3	105	75-135
124-48-1	Dibromochloromethane	50	47.1	94	84-128
106-93-4	1,2-Dibromoethane	50	49.8	100	82-129
95-50-1	1,2-Dichlorobenzene	50	49.6	99	85-117
541-73-1	1,3-Dichlorobenzene	50	46.5	93	83-116
106-46-7	1,4-Dichlorobenzene	50	47.4	95	82-115
75-71-8	Dichlorodifluoromethane	50	43.8	88	49-153
75-34-3	1,1-Dichloroethane	50	49.4	99	75-122
107-06-2	1,2-Dichloroethane	50	43.9	88	74-116
75-35-4	1,1-Dichloroethene	50	47.7	95	68-129
156-59-2	cis-1,2-Dichloroethene	50	48.0	96	78-120
156-60-5	trans-1,2-Dichloroethene	50	47.6	95	74-125
78-87-5	1,2-Dichloropropane	50	50.3	101	80-120
142-28-9	1,3-Dichloropropane	50	49.3	99	82-116
594-20-7	2,2-Dichloropropane	50	53.0	106	70-128
563-58-6	1,1-Dichloropropene	50	48.2	96	75-121
10061-01-5	cis-1,3-Dichloropropene	50	49.4	99	84-123

* = Outside of Control Limits.

5.2.7
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Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-BS	2B187048.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	50.9	102	84-124
100-41-4	Ethylbenzene	50	46.8	94	80-115
87-68-3	Hexachlorobutadiene	50	52.8	106	68-137
591-78-6	2-Hexanone	200	174	87	74-132
74-88-4	Iodomethane	50	48.3	97	10-200
98-82-8	Isopropylbenzene	50	48.4	97	79-120
99-87-6	p-Isopropyltoluene	50	51.2	102	80-122
1634-04-4	Methyl Tert Butyl Ether	50	46.6	93	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	200	196	98	77-129
74-95-3	Methylene bromide	50	47.2	94	83-121
75-09-2	Methylene chloride	50	49.8	100	74-125
91-20-3	Naphthalene	50	51.8	104	73-138
103-65-1	n-Propylbenzene	50	48.2	96	78-117
100-42-5	Styrene	50	48.7	97	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	50.8	102	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.8	100	78-122
127-18-4	Tetrachloroethene	50	47.9	96	75-125
108-88-3	Toluene	50	49.1	98	80-115
87-61-6	1,2,3-Trichlorobenzene	50	55.3	111	73-140
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	77-137
71-55-6	1,1,1-Trichloroethane	50	51.2	102	77-124
79-00-5	1,1,2-Trichloroethane	50	49.6	99	83-118
79-01-6	Trichloroethene	50	50.0	100	80-123
75-69-4	Trichlorofluoromethane	50	49.7	99	71-134
96-18-4	1,2,3-Trichloropropane	50	47.0	94	80-121
95-63-6	1,2,4-Trimethylbenzene	50	47.6	95	81-119
108-67-8	1,3,5-Trimethylbenzene	50	47.3	95	79-120
108-05-4	Vinyl Acetate	50	63.0	126	77-131
75-01-4	Vinyl chloride	50	50.0	100	56-138
	m,p-Xylene	100	95.8	96	81-118
95-47-6	o-Xylene	50	48.2	96	81-119
1330-20-7	Xylene (total)	150	144	96	81-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-BS	2B187048.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34787-1MS	4D113626.D	1	11/11/21	BK	n/a	n/a	V4D5054
JD34787-1	4D113620.D	1	11/11/21	BK	n/a	n/a	V4D5054

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31

CAS No.	Compound	JD34787-1 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	200	154	77	52-133
78-93-3	2-Butanone (MEK)	ND	200	189	95	64-131
75-35-4	1,1-Dichloroethene	ND	50	49.0	98	60-136
156-59-2	cis-1,2-Dichloroethene	ND	50	48.1	96	55-133
127-18-4	Tetrachloroethene	ND	50	53.0	106	61-134
108-88-3	Toluene	ND	50	48.5	97	54-130
79-01-6	Trichloroethene	ND	50	50.7	101	56-139

CAS No.	Surrogate Recoveries	MS	JD34787-1	Limits
1868-53-7	Dibromofluoromethane	95%	93%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	80-121%
2037-26-5	Toluene-D8	94%	95%	80-120%
460-00-4	4-Bromofluorobenzene	94%	92%	80-120%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34679-2MS	3D170788.D	1	11/11/21	NW	n/a	n/a	V3D7248
JD34679-2	3D170784.D	1	11/11/21	NW	n/a	n/a	V3D7248

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-32

CAS No.	Compound	JD34679-2 ug/l	Spike Q	MS ug/l	MS %	Limits
127-18-4	Tetrachloroethene	50.9	50	107	112	61-134

CAS No.	Surrogate Recoveries	MS	JD34679-2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	110%	80-121%
2037-26-5	Toluene-D8	99%	104%	80-120%
460-00-4	4-Bromofluorobenzene	107%	100%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90261-9MS	2B186957.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9MSD	2B186958.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9 ^a	2B186955.D	10	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	FA90261-9 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	100 U		2000	1190	60	2000	1200	60	1	52-133/18
71-43-2	Benzene	467		500	870	81	500	863	79	1	55-129/11
108-86-1	Bromobenzene	10 U		500	501	100	500	507	101	1	73-120/11
74-97-5	Bromochloromethane	10 U		500	489	98	500	496	99	1	75-122/10
75-27-4	Bromodichloromethane	10 U		500	506	101	500	509	102	1	74-123/11
75-25-2	Bromoform	10 U		500	481	96	500	496	99	3	69-135/12
74-83-9	Bromomethane	20 U		500	463	93	500	463	93	0	11-167/43
78-93-3	2-Butanone (MEK)	100 U		2000	1630	82	2000	1680	84	3	64-131/15
104-51-8	n-Butylbenzene	8.5	I	500	582	115	500	587	116	1	69-130/11
135-98-8	sec-Butylbenzene	7.8	I	500	546	108	500	548	108	0	70-125/12
98-06-6	tert-Butylbenzene	20 U		500	524	105	500	535	107	2	68-125/12
75-15-0	Carbon disulfide	20 U		500	478	96	500	484	97	1	54-137/15
56-23-5	Carbon tetrachloride	10 U		500	504	101	500	504	101	0	68-132/11
108-90-7	Chlorobenzene	10 U		500	496	99	500	500	100	1	71-119/10
75-00-3	Chloroethane	10 U		500	510	102	500	510	102	0	50-146/18
67-66-3	Chloroform	11.1		500	476	93	500	479	94	1	67-120/11
74-87-3	Chloromethane	10 U		500	437	87	500	427	85	2	42-146/17
95-49-8	o-Chlorotoluene	20 U		500	487	97	500	489	98	0	71-120/12
106-43-4	p-Chlorotoluene	20 U		500	482	96	500	484	97	0	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	20 U		500	519	104	500	520	104	0	65-130/15
124-48-1	Dibromochloromethane	10 U		500	474	95	500	478	96	1	74-125/10
106-93-4	1,2-Dibromoethane	10 U		500	478	96	500	489	98	2	74-125/9
95-50-1	1,2-Dichlorobenzene	10 U		500	504	101	500	510	102	1	73-117/10
541-73-1	1,3-Dichlorobenzene	10 U		500	484	97	500	489	98	1	73-117/10
106-46-7	1,4-Dichlorobenzene	10 U		500	494	99	500	504	101	2	70-117/10
75-71-8	Dichlorodifluoromethane	20 U		500	377	75	500	374	75	1	46-169/17
75-34-3	1,1-Dichloroethane	10 U		500	495	99	500	495	99	0	66-124/13
107-06-2	1,2-Dichloroethane	10 U		500	454	91	500	457	91	1	66-115/10
75-35-4	1,1-Dichloroethene	10 U		500	490	98	500	490	98	0	60-136/15
156-59-2	cis-1,2-Dichloroethene	10 U		500	485	97	500	481	96	1	55-133/12
156-60-5	trans-1,2-Dichloroethene	10 U		500	479	96	500	489	98	2	67-127/13
78-87-5	1,2-Dichloropropane	10 U		500	515	103	500	518	104	1	72-120/11
142-28-9	1,3-Dichloropropane	10 U		500	483	97	500	487	97	1	72-115/10
594-20-7	2,2-Dichloropropane	10 U		500	527	105	500	534	107	1	61-133/12
563-58-6	1,1-Dichloropropene	10 U		500	508	102	500	501	100	1	68-127/12
10061-01-5	cis-1,3-Dichloropropene	10 U		500	519	104	500	522	104	1	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90261-9MS	2B186957.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9MSD	2B186958.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9 ^a	2B186955.D	10	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Compound	FA90261-9 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	10 U	500	502	100	500	509	102	1	73-122/11
100-41-4	Ethylbenzene	1970	500	2030	12* ^b	500	2040	14* ^b	0	44-136/10
87-68-3	Hexachlorobutadiene	20 U	500	545	109	500	549	110	1	55-143/15
591-78-6	2-Hexanone	50 U	2000	1650	83	2000	1680	84	2	64-129/13
74-88-4	Iodomethane	20 U	500	490	98	500	503	101	3	10-200/61
98-82-8	Isopropylbenzene	150	500	620	94	500	629	96	1	71-122/11
99-87-6	p-Isopropyltoluene	20 U	500	549	110	500	553	111	1	72-124/11
1634-04-4	Methyl Tert Butyl Ether	10 U	500	449	90	500	464	93	3	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	50 U	2000	1970	99	2000	1970	99	0	68-128/13
74-95-3	Methylene bromide	10 U	500	467	93	500	475	95	2	74-118/10
75-09-2	Methylene chloride	20 U	500	478	96	500	486	97	2	65-126/13
91-20-3	Naphthalene	311	500	868	111	500	868	111	0	58-140/16
103-65-1	n-Propylbenzene	312	500	741	86	500	746	87	1	64-123/11
100-42-5	Styrene	10 U	500	526	105	500	530	106	1	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	10 U	500	504	101	500	515	103	2	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	10 U	500	495	99	500	502	100	1	68-120/15
127-18-4	Tetrachloroethene	10 U	500	502	100	500	512	102	2	61-134/11
108-88-3	Toluene	33.0	500	530	99	500	536	101	1	54-130/11
87-61-6	1,2,3-Trichlorobenzene	10 U	500	567	113	500	576	115	2	64-135/15
120-82-1	1,2,4-Trichlorobenzene	10 U	500	584	117	500	586	117	0	67-134/14
71-55-6	1,1,1-Trichloroethane	10 U	500	524	105	500	526	105	0	66-130/12
79-00-5	1,1,2-Trichloroethane	10 U	500	487	97	500	490	98	1	73-117/11
79-01-6	Trichloroethene	10 U	500	535	107	500	539	108	1	56-139/11
75-69-4	Trichlorofluoromethane	20 U	500	483	97	500	491	98	2	63-150/16
96-18-4	1,2,3-Trichloropropane	20 U	500	463	93	500	474	95	2	71-118/12
95-63-6	1,2,4-Trimethylbenzene	1960	500	2240	56	500	2240	56	0	45-139/11
108-67-8	1,3,5-Trimethylbenzene	465	500	878	83	500	887	84	1	60-128/12
108-05-4	Vinyl Acetate	100 U	500	621	124	500	665	133* ^c	7	66-128/15
75-01-4	Vinyl chloride	10 U	500	482	96	500	479	96	1	48-148/17
	m,p-Xylene	4400	L 1000	4800	40* ^b	1000	4860	46	1	42-140/10
95-47-6	o-Xylene	997	500	1360	73	500	1380	77	1	54-133/11
1330-20-7	Xylene (total)	5400	L 1500	6160	51	1500	6240	56	1	46-138/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90261-9MS	2B186957.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9MSD	2B186958.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9 ^a	2B186955.D	10	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3, JD34909-4, JD34909-5, JD34909-21, JD34909-22

CAS No.	Surrogate Recoveries	MS	MSD	FA90261-9	Limits
1868-53-7	Dibromofluoromethane	100%	100%	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	99%	80-121%
2037-26-5	Toluene-D8	97%	98%	100%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	91%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-7MS	2B186979.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7MSD	2B186980.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7 ^a	2B186977.D	25	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	JD34909-7		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
		ug/l	Q								
67-64-1	Acetone	ND		5000	2720	54	5000	2780	56	2	52-133/18
71-43-2	Benzene	ND		1250	1230	98	1250	1210	97	2	55-129/11
108-86-1	Bromobenzene	ND		1250	1240	99	1250	1240	99	0	73-120/11
74-97-5	Bromochloromethane	ND		1250	1210	97	1250	1210	97	0	75-122/10
75-27-4	Bromodichloromethane	ND		1250	1220	98	1250	1220	98	0	74-123/11
75-25-2	Bromoform	ND		1250	1220	98	1250	1240	99	2	69-135/12
74-83-9	Bromomethane	ND		1250	1150	92	1250	1120	90	3	11-167/43
78-93-3	2-Butanone (MEK)	ND		5000	4110	82	5000	4460	89	8	64-131/15
104-51-8	n-Butylbenzene	ND		1250	1400	112	1250	1370	110	2	69-130/11
135-98-8	sec-Butylbenzene	ND		1250	1300	104	1250	1280	102	2	70-125/12
98-06-6	tert-Butylbenzene	ND		1250	1310	105	1250	1310	105	0	68-125/12
75-15-0	Carbon disulfide	ND		1250	1170	94	1250	1170	94	0	54-137/15
56-23-5	Carbon tetrachloride	ND		1250	1260	101	1250	1240	99	2	68-132/11
108-90-7	Chlorobenzene	ND		1250	1220	98	1250	1210	97	1	71-119/10
75-00-3	Chloroethane	ND		1250	1280	102	1250	1250	100	2	50-146/18
67-66-3	Chloroform	33.9		1250	1180	92	1250	1150	89	3	67-120/11
74-87-3	Chloromethane	ND		1250	1170	94	1250	1130	90	3	42-146/17
95-49-8	o-Chlorotoluene	ND		1250	1270	102	1250	1260	101	1	71-120/12
106-43-4	p-Chlorotoluene	ND		1250	1170	94	1250	1160	93	1	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1310	105	1250	1320	106	1	65-130/15
124-48-1	Dibromochloromethane	ND		1250	1150	92	1250	1180	94	3	74-125/10
106-93-4	1,2-Dibromoethane	ND		1250	1190	95	1250	1220	98	2	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		1250	1250	100	1250	1250	100	0	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		1250	1170	94	1250	1160	93	1	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		1250	1210	97	1250	1200	96	1	70-117/10
75-71-8	Dichlorodifluoromethane	ND		1250	1230	98	1250	1170	94	5	46-169/17
75-34-3	1,1-Dichloroethane	ND		1250	1230	98	1250	1210	97	2	66-124/13
107-06-2	1,2-Dichloroethane	ND		1250	1100	88	1250	1070	86	3	66-115/10
75-35-4	1,1-Dichloroethene	ND		1250	1200	96	1250	1190	95	1	60-136/15
156-59-2	cis-1,2-Dichloroethene	518		1250	1590	86	1250	1580	85	1	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND		1250	1190	95	1250	1160	93	3	67-127/13
78-87-5	1,2-Dichloropropane	ND		1250	1250	100	1250	1250	100	0	72-120/11
142-28-9	1,3-Dichloropropane	ND		1250	1200	96	1250	1230	98	2	72-115/10
594-20-7	2,2-Dichloropropane	ND		1250	1090	87	1250	1060	85	3	61-133/12
563-58-6	1,1-Dichloropropene	ND		1250	1240	99	1250	1210	97	2	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1230	98	1250	1230	98	0	75-123/12

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-7MS	2B186979.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7MSD	2B186980.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7 ^a	2B186977.D	25	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Compound	JD34909-7 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	1250	1200	96	1250	1220	98	2	73-122/11
100-41-4	Ethylbenzene	ND	1250	1180	94	1250	1180	94	0	44-136/10
87-68-3	Hexachlorobutadiene	ND	1250	1310	105	1250	1270	102	3	55-143/15
591-78-6	2-Hexanone	ND	5000	4020	80	5000	4220	84	5	64-129/13
74-88-4	Iodomethane	ND	1250	1200	96	1250	1200	96	0	10-200/61
98-82-8	Isopropylbenzene	ND	1250	1240	99	1250	1230	98	1	71-122/11
99-87-6	p-Isopropyltoluene	ND	1250	1310	105	1250	1290	103	2	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND	1250	1120	90	1250	1150	92	3	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5000	4840	97	5000	5000	100	3	68-128/13
74-95-3	Methylene bromide	ND	1250	1160	93	1250	1150	92	1	74-118/10
75-09-2	Methylene chloride	ND	1250	1190	95	1250	1170	94	2	65-126/13
91-20-3	Naphthalene	ND	1250	1260	101	1250	1290	103	2	58-140/16
103-65-1	n-Propylbenzene	ND	1250	1240	99	1250	1240	99	0	64-123/11
100-42-5	Styrene	ND	1250	1240	99	1250	1230	98	1	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND	1250	1270	102	1250	1270	102	0	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	1250	1240	99	1250	1300	104	5	68-120/15
127-18-4	Tetrachloroethene	8630	E 1250	7330	-104* b	1250	7310	-106* b	0	61-134/11
108-88-3	Toluene	ND	1250	1230	98	1250	1230	98	0	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND	1250	1340	107	1250	1350	108	1	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND	1250	1410	113	1250	1380	110	2	67-134/14
71-55-6	1,1,1-Trichloroethane	ND	1250	1300	104	1250	1280	102	2	66-130/12
79-00-5	1,1,2-Trichloroethane	ND	1250	1210	97	1250	1210	97	0	73-117/11
79-01-6	Trichloroethene	252	1250	1490	99	1250	1460	97	2	56-139/11
75-69-4	Trichlorofluoromethane	ND	1250	1350	108	1250	1280	102	5	63-150/16
96-18-4	1,2,3-Trichloropropane	ND	1250	1150	92	1250	1220	98	6	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND	1250	1220	98	1250	1210	97	1	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND	1250	1220	98	1250	1210	97	1	60-128/12
108-05-4	Vinyl Acetate	ND	1250	1520	122	1250	1560	125	3	66-128/15
75-01-4	Vinyl chloride	ND	1250	1260	101	1250	1240	99	2	48-148/17
	m,p-Xylene	ND	2500	2420	97	2500	2420	97	0	42-140/10
95-47-6	o-Xylene	ND	1250	1220	98	1250	1210	97	1	54-133/11
1330-20-7	Xylene (total)	ND	3750	3650	97	3750	3640	97	0	46-138/10

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-7MS	2B186979.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7MSD	2B186980.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7 ^a	2B186977.D	25	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-6, JD34909-7, JD34909-8, JD34909-9, JD34909-10, JD34909-11, JD34909-12, JD34909-13, JD34909-14, JD34909-15, JD34909-16, JD34909-17, JD34909-18

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-7	Limits
1868-53-7	Dibromofluoromethane	101%	100%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	97%	80-121%
2037-26-5	Toluene-D8	97%	99%	103%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

5.4.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-6MS	2B187010.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6MSD	2B187011.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6 ^a	2B187005.D	25	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	JD34909-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		5000	2550	51* ^b	5000	2390	48* ^b	6	52-133/18
71-43-2	Benzene	ND		1250	1200	96	1250	1140	91	5	55-129/11
108-86-1	Bromobenzene	ND		1250	1190	95	1250	1150	92	3	73-120/11
74-97-5	Bromochloromethane	ND		1250	1170	94	1250	1110	89	5	75-122/10
75-27-4	Bromodichloromethane	ND		1250	1180	94	1250	1120	90	5	74-123/11
75-25-2	Bromoform	ND		1250	1150	92	1250	1100	88	4	69-135/12
74-83-9	Bromomethane	ND		1250	1150	92	1250	1000	80	14	11-167/43
78-93-3	2-Butanone (MEK)	ND		5000	4040	81	5000	3740	75	8	64-131/15
104-51-8	n-Butylbenzene	ND		1250	1390	111	1250	1330	106	4	69-130/11
135-98-8	sec-Butylbenzene	ND		1250	1280	102	1250	1230	98	4	70-125/12
98-06-6	tert-Butylbenzene	ND		1250	1280	102	1250	1240	99	3	68-125/12
75-15-0	Carbon disulfide	ND		1250	1150	92	1250	1090	87	5	54-137/15
56-23-5	Carbon tetrachloride	ND		1250	1240	99	1250	1170	94	6	68-132/11
108-90-7	Chlorobenzene	ND		1250	1180	94	1250	1120	90	5	71-119/10
75-00-3	Chloroethane	292		1250	1490	96	1250	1330	83	11	50-146/18
67-66-3	Chloroform	36.8		1250	1120	87	1250	1060	82	6	67-120/11
74-87-3	Chloromethane	ND		1250	1140	91	1250	1020	82	11	42-146/17
95-49-8	o-Chlorotoluene	ND		1250	1240	99	1250	1180	94	5	71-120/12
106-43-4	p-Chlorotoluene	ND		1250	1150	92	1250	1090	87	5	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		1250	1270	102	1250	1200	96	6	65-130/15
124-48-1	Dibromochloromethane	ND		1250	1120	90	1250	1070	86	5	74-125/10
106-93-4	1,2-Dibromoethane	ND		1250	1160	93	1250	1090	87	6	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		1250	1230	98	1250	1170	94	5	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		1250	1160	93	1250	1100	88	5	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		1250	1190	95	1250	1120	90	6	70-117/10
75-71-8	Dichlorodifluoromethane	ND		1250	1080	86	1250	947	76	13	46-169/17
75-34-3	1,1-Dichloroethane	5170	E	1250	5420	20* ^c	1250	5310	11* ^c	2	66-124/13
107-06-2	1,2-Dichloroethane	ND		1250	1060	85	1250	976	78	8	66-115/10
75-35-4	1,1-Dichloroethene	1340		1250	2160	66	1250	2100	61	3	60-136/15
156-59-2	cis-1,2-Dichloroethene	ND		1250	1170	94	1250	1100	88	6	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND		1250	1180	94	1250	1120	90	5	67-127/13
78-87-5	1,2-Dichloropropane	ND		1250	1210	97	1250	1150	92	5	72-120/11
142-28-9	1,3-Dichloropropane	ND		1250	1160	93	1250	1090	87	6	72-115/10
594-20-7	2,2-Dichloropropane	ND		1250	1260	101	1250	1200	96	5	61-133/12
563-58-6	1,1-Dichloropropene	ND		1250	1180	94	1250	1130	90	4	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		1250	1200	96	1250	1140	91	5	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-6MS	2B187010.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6MSD	2B187011.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6 ^a	2B187005.D	25	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Compound	JD34909-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	1250	1200	96	1250	1140	91	5	73-122/11
100-41-4	Ethylbenzene	ND	1250	1170	94	1250	1100	88	6	44-136/10
87-68-3	Hexachlorobutadiene	ND	1250	1320	106	1250	1270	102	4	55-143/15
591-78-6	2-Hexanone	ND	5000	3960	79	5000	3780	76	5	64-129/13
74-88-4	Iodomethane	ND	1250	1160	93	1250	1110	89	4	10-200/61
98-82-8	Isopropylbenzene	ND	1250	1200	96	1250	1150	92	4	71-122/11
99-87-6	p-Isopropyltoluene	ND	1250	1300	104	1250	1240	99	5	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND	1250	1110	89	1250	1050	84	6	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5000	4620	92	5000	4310	86	7	68-128/13
74-95-3	Methylene bromide	ND	1250	1090	87	1250	1050	84	4	74-118/10
75-09-2	Methylene chloride	ND	1250	1150	92	1250	1100	88	4	65-126/13
91-20-3	Naphthalene	ND	1250	1300	104	1250	1210	97	7	58-140/16
103-65-1	n-Propylbenzene	ND	1250	1240	99	1250	1190	95	4	64-123/11
100-42-5	Styrene	ND	1250	1200	96	1250	1140	91	5	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND	1250	1220	98	1250	1170	94	4	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	1250	1200	96	1250	1140	91	5	68-120/15
127-18-4	Tetrachloroethene	ND	1250	1220	98	1250	1160	93	5	61-134/11
108-88-3	Toluene	ND	1250	1190	95	1250	1140	91	4	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND	1250	1370	110	1250	1310	105	4	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND	1250	1410	113	1250	1350	108	4	67-134/14
71-55-6	1,1,1-Trichloroethane	15500	E 1250	13800	-136* ^c	1250	13700	-144* ^c	1	66-130/12
79-00-5	1,1,2-Trichloroethane	ND	1250	1170	94	1250	1110	89	5	73-117/11
79-01-6	Trichloroethene	16.1	1250	1250	99	1250	1200	95	4	56-139/11
75-69-4	Trichlorofluoromethane	ND	1250	1220	98	1250	1080	86	12	63-150/16
96-18-4	1,2,3-Trichloropropane	ND	1250	1140	91	1250	1070	86	6	71-118/12
95-63-6	1,2,4-Trimethylbenzene	40.3	1250	1240	96	1250	1180	91	5	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND	1250	1220	98	1250	1170	94	4	60-128/12
108-05-4	Vinyl Acetate	ND	1250	1490	119	1250	1430	114	4	66-128/15
75-01-4	Vinyl chloride	ND	1250	1260	101	1250	1110	89	13	48-148/17
	m,p-Xylene	21.6	2500	2390	95	2500	2280	90	5	42-140/10
95-47-6	o-Xylene	ND	1250	1210	97	1250	1140	91	6	54-133/11
1330-20-7	Xylene (total)	36.3	3750	3600	95	3750	3420	90	5	46-138/10

* = Outside of Control Limits.

5.4.3
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-6MS	2B187010.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6MSD	2B187011.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6 ^a	2B187005.D	25	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2, JD34909-6, JD34909-7, JD34909-19, JD34909-20, JD34909-24, JD34909-25, JD34909-26, JD34909-27, JD34909-28, JD34909-29, JD34909-30

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-6	Limits
1868-53-7	Dibromofluoromethane	101%	101%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	97%	80-121%
2037-26-5	Toluene-D8	99%	99%	102%	80-120%
460-00-4	4-Bromofluorobenzene	96%	96%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to matrix interference.
- (c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

5.4.3
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-31MS	2B187031.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31MSD	2B187032.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31 ^a	2B187028.D	5	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	JD34909-31 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	16900	E	1000	16500	-40* ^b	1000	16200	-70* ^b	2	52-133/18
71-43-2	Benzene	227		250	425	79	250	412	74	3	55-129/11
108-86-1	Bromobenzene	ND		250	238	95	250	238	95	0	73-120/11
74-97-5	Bromochloromethane	ND		250	237	95	250	238	95	0	75-122/10
75-27-4	Bromodichloromethane	ND		250	246	98	250	240	96	2	74-123/11
75-25-2	Bromoform	ND		250	246	98	250	235	94	5	69-135/12
74-83-9	Bromomethane	ND		250	234	94	250	226	90	3	11-167/43
78-93-3	2-Butanone (MEK)	6410	E	1000	6710	30* ^b	1000	6680	27* ^b	0	64-131/15
104-51-8	n-Butylbenzene	ND		250	276	110	250	267	107	3	69-130/11
135-98-8	sec-Butylbenzene	7.2		250	257	100	250	254	99	1	70-125/12
98-06-6	tert-Butylbenzene	ND		250	255	102	250	252	101	1	68-125/12
75-15-0	Carbon disulfide	ND		250	227	91	250	216	86	5	54-137/15
56-23-5	Carbon tetrachloride	ND		250	263	105	250	259	104	2	68-132/11
108-90-7	Chlorobenzene	ND		250	240	96	250	235	94	2	71-119/10
75-00-3	Chloroethane	ND		250	260	104	250	247	99	5	50-146/18
67-66-3	Chloroform	14.4		250	241	91	250	234	88	3	67-120/11
74-87-3	Chloromethane	ND		250	233	93	250	219	88	6	42-146/17
95-49-8	o-Chlorotoluene	ND		250	243	97	250	244	98	0	71-120/12
106-43-4	p-Chlorotoluene	ND		250	226	90	250	224	90	1	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	256	102	250	256	102	0	65-130/15
124-48-1	Dibromochloromethane	ND		250	231	92	250	226	90	2	74-125/10
106-93-4	1,2-Dibromoethane	ND		250	239	96	250	237	95	1	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		250	246	98	250	241	96	2	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		250	231	92	250	227	91	2	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		250	237	95	250	232	93	2	70-117/10
75-71-8	Dichlorodifluoromethane	ND		250	214	86	250	205	82	4	46-169/17
75-34-3	1,1-Dichloroethane	229		250	419	76	250	409	72	2	66-124/13
107-06-2	1,2-Dichloroethane	ND		250	229	92	250	223	89	3	66-115/10
75-35-4	1,1-Dichloroethene	1700	E	250	1430	-108* ^b	250	1410	-116* ^b	1	60-136/15
156-59-2	cis-1,2-Dichloroethene	3970	E	250	3520	-180* ^b	250	3450	-208* ^b	2	55-133/12
156-60-5	trans-1,2-Dichloroethene	30.7		250	255	90	250	251	88	2	67-127/13
78-87-5	1,2-Dichloropropane	ND		250	250	100	250	241	96	4	72-120/11
142-28-9	1,3-Dichloropropane	ND		250	241	96	250	234	94	3	72-115/10
594-20-7	2,2-Dichloropropane	ND		250	194	78	250	185	74	5	61-133/12
563-58-6	1,1-Dichloropropene	ND		250	240	96	250	233	93	3	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND		250	241	96	250	239	96	1	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-31MS	2B187031.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31MSD	2B187032.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31 ^a	2B187028.D	5	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Compound	JD34909-31 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		250	233	93	250	229	92	2	73-122/11
100-41-4	Ethylbenzene	625		250	704	32* ^b	250	689	26* ^b	2	44-136/10
87-68-3	Hexachlorobutadiene	ND		250	257	103	250	246	98	4	55-143/15
591-78-6	2-Hexanone	ND		1000	871	87	1000	837	84	4	64-129/13
74-88-4	Iodomethane	ND		250	226	90	250	223	89	1	10-200/61
98-82-8	Isopropylbenzene	16.0		250	259	97	250	251	94	3	71-122/11
99-87-6	p-Isopropyltoluene	ND		250	257	103	250	253	101	2	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND		250	226	90	250	220	88	3	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	630		1000	1600	97	1000	1600	97	0	68-128/13
74-95-3	Methylene bromide	ND		250	231	92	250	226	90	2	74-118/10
75-09-2	Methylene chloride	386		250	555	68	250	537	60* ^c	3	65-126/13
91-20-3	Naphthalene	16.5		250	273	103	250	269	101	1	58-140/16
103-65-1	n-Propylbenzene	8.0		250	246	95	250	246	95	0	64-123/11
100-42-5	Styrene	ND		250	254	102	250	245	98	4	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		250	254	102	250	246	98	3	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	247	99	250	249	100	1	68-120/15
127-18-4	Tetrachloroethene	2140	E	250	1810	-132* ^b	250	1780	-144* ^b	2	61-134/11
108-88-3	Toluene	1140	E	250	1160	8* ^b	250	1150	4* ^b	1	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND		250	263	105	250	257	103	2	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND		250	276	110	250	266	106	4	67-134/14
71-55-6	1,1,1-Trichloroethane	19600	E	250	17200	-960* ^b	250	16600	-1200* ^b	4	66-130/12
79-00-5	1,1,2-Trichloroethane	15.4		250	258	97	250	250	94	3	73-117/11
79-01-6	Trichloroethene	1380	E	250	1360	-8* ^b	250	1340	-16* ^b	1	56-139/11
75-69-4	Trichlorofluoromethane	ND		250	245	98	250	243	97	1	63-150/16
96-18-4	1,2,3-Trichloropropane	ND		250	234	94	250	232	93	1	71-118/12
95-63-6	1,2,4-Trimethylbenzene	98.3		250	312	85	250	312	85	0	45-139/11
108-67-8	1,3,5-Trimethylbenzene	31.9		250	261	92	250	260	91	0	60-128/12
108-05-4	Vinyl Acetate	ND		250	299	120	250	299	120	0	66-128/15
75-01-4	Vinyl chloride	ND		250	255	102	250	243	97	5	48-148/17
	m,p-Xylene	1690		500	1890	40* ^b	500	1860	34* ^b	2	42-140/10
95-47-6	o-Xylene	636		250	784	59	250	772	54	2	54-133/11
1330-20-7	Xylene (total)	2330		750	2680	47	750	2630	40* ^b	2	46-138/10

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-31MS	2B187031.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31MSD	2B187032.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31 ^a	2B187028.D	5	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31, JD34909-33, JD34909-34, JD34909-35, JD34909-36, JD34909-37, JD34909-38, JD34909-39

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-31	Limits
1868-53-7	Dibromofluoromethane	102%	102%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	94%	95%	80-121%
2037-26-5	Toluene-D8	98%	98%	101%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	93%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-32MS	2B187058.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32MSD	2B187059.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32 ^a	2B187053.D	4	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	JD34909-32		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
67-64-1	Acetone	ND	800	479	60	800	455	57	5	52-133/18
71-43-2	Benzene	ND	200	209	105	200	202	101	3	55-129/11
108-86-1	Bromobenzene	ND	200	204	102	200	201	101	1	73-120/11
74-97-5	Bromochloromethane	ND	200	209	105	200	203	102	3	75-122/10
75-27-4	Bromodichloromethane	ND	200	210	105	200	202	101	4	74-123/11
75-25-2	Bromoform	ND	200	202	101	200	198	99	2	69-135/12
74-83-9	Bromomethane	ND	200	205	103	200	196	98	4	11-167/43
78-93-3	2-Butanone (MEK)	ND	800	740	93	800	694	87	6	64-131/15
104-51-8	n-Butylbenzene	ND	200	238	119	200	230	115	3	69-130/11
135-98-8	sec-Butylbenzene	ND	200	216	108	200	209	105	3	70-125/12
98-06-6	tert-Butylbenzene	ND	200	218	109	200	207	104	5	68-125/12
75-15-0	Carbon disulfide	ND	200	206	103	200	201	101	2	54-137/15
56-23-5	Carbon tetrachloride	ND	200	208	104	200	201	101	3	68-132/11
108-90-7	Chlorobenzene	ND	200	204	102	200	199	100	2	71-119/10
75-00-3	Chloroethane	ND	200	227	114	200	217	109	5	50-146/18
67-66-3	Chloroform	4.9	200	199	97	200	193	94	3	67-120/11
74-87-3	Chloromethane	ND	200	207	104	200	193	97	7	42-146/17
95-49-8	o-Chlorotoluene	ND	200	212	106	200	207	104	2	71-120/12
106-43-4	p-Chlorotoluene	ND	200	196	98	200	190	95	3	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	220	110	200	208	104	6	65-130/15
124-48-1	Dibromochloromethane	ND	200	196	98	200	191	96	3	74-125/10
106-93-4	1,2-Dibromoethane	ND	200	203	102	200	198	99	2	74-125/9
95-50-1	1,2-Dichlorobenzene	ND	200	209	105	200	204	102	2	73-117/10
541-73-1	1,3-Dichlorobenzene	ND	200	198	99	200	192	96	3	73-117/10
106-46-7	1,4-Dichlorobenzene	ND	200	202	101	200	198	99	2	70-117/10
75-71-8	Dichlorodifluoromethane	ND	200	184	92	200	175	88	5	46-169/17
75-34-3	1,1-Dichloroethane	ND	200	215	108	200	203	102	6	66-124/13
107-06-2	1,2-Dichloroethane	ND	200	186	93	200	181	91	3	66-115/10
75-35-4	1,1-Dichloroethene	ND	200	208	104	200	202	101	3	60-136/15
156-59-2	cis-1,2-Dichloroethene	57.4	200	251	97	200	242	92	4	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND	200	207	104	200	201	101	3	67-127/13
78-87-5	1,2-Dichloropropane	ND	200	211	106	200	204	102	3	72-120/11
142-28-9	1,3-Dichloropropane	ND	200	203	102	200	198	99	2	72-115/10
594-20-7	2,2-Dichloropropane	ND	200	219	110	200	211	106	4	61-133/12
563-58-6	1,1-Dichloropropene	ND	200	208	104	200	203	102	2	68-127/12
10061-01-5	cis-1,3-Dichloropropene	ND	200	215	108	200	211	106	2	75-123/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-32MS	2B187058.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32MSD	2B187059.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32 ^a	2B187053.D	4	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Compound	JD34909-32 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		200	210	105	200	207	104	1	73-122/11
100-41-4	Ethylbenzene	ND		200	198	99	200	193	97	3	44-136/10
87-68-3	Hexachlorobutadiene	ND		200	226	113	200	215	108	5	55-143/15
591-78-6	2-Hexanone	ND		800	697	87	800	679	85	3	64-129/13
74-88-4	Iodomethane	ND		200	203	102	200	202	101	0	10-200/61
98-82-8	Isopropylbenzene	ND		200	205	103	200	200	100	2	71-122/11
99-87-6	p-Isopropyltoluene	ND		200	220	110	200	211	106	4	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND		200	193	97	200	189	95	2	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		800	830	104	800	804	101	3	68-128/13
74-95-3	Methylene bromide	ND		200	197	99	200	191	96	3	74-118/10
75-09-2	Methylene chloride	ND		200	208	104	200	200	100	4	65-126/13
91-20-3	Naphthalene	ND		200	224	112	200	211	106	6	58-140/16
103-65-1	n-Propylbenzene	ND		200	209	105	200	203	102	3	64-123/11
100-42-5	Styrene	ND		200	205	103	200	200	100	2	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		200	209	105	200	204	102	2	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	210	105	200	205	103	2	68-120/15
127-18-4	Tetrachloroethene	1150	E	200	910	-120* ^b	200	907	-122* ^b	0	61-134/11
108-88-3	Toluene	ND		200	207	104	200	201	101	3	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND		200	240	120	200	225	113	6	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND		200	246	123	200	230	115	7	67-134/14
71-55-6	1,1,1-Trichloroethane	7.9		200	223	108	200	215	104	4	66-130/12
79-00-5	1,1,2-Trichloroethane	ND		200	205	103	200	201	101	2	73-117/11
79-01-6	Trichloroethene	392		200	499	54* ^c	200	490	49* ^c	2	56-139/11
75-69-4	Trichlorofluoromethane	ND		200	214	107	200	202	101	6	63-150/16
96-18-4	1,2,3-Trichloropropane	ND		200	200	100	200	193	97	4	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND		200	206	103	200	198	99	4	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND		200	205	103	200	198	99	3	60-128/12
108-05-4	Vinyl Acetate	ND		200	266	133* ^c	200	264	132* ^c	1	66-128/15
75-01-4	Vinyl chloride	ND		200	219	110	200	208	104	5	48-148/17
	m,p-Xylene	ND		400	408	102	400	398	100	2	42-140/10
95-47-6	o-Xylene	ND		200	203	102	200	201	101	1	54-133/11
1330-20-7	Xylene (total)	ND		600	611	101	600	600	99	2	46-138/10

* = Outside of Control Limits.

5.4.5
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-32MS	2B187058.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32MSD	2B187059.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32 ^a	2B187053.D	4	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1, JD34909-23, JD34909-31, JD34909-32, JD34909-33, JD34909-37, JD34909-40, JD34909-41, JD34909-42, JD34909-43

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-32	Limits
1868-53-7	Dibromofluoromethane	103%	102%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	95%	100%	80-121%
2037-26-5	Toluene-D8	99%	99%	103%	80-120%
460-00-4	4-Bromofluorobenzene	95%	94%	98%	80-120%

- (a) Dilution required due to high concentration of target compound.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34787-2DUP	4D113628.D	1	11/11/21	BK	n/a	n/a	V4D5054
JD34787-2	4D113621.D	1	11/11/21	BK	n/a	n/a	V4D5054

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31

CAS No.	Compound	JD34787-2		Q	RPD	Limits
		ug/l	DUP ug/l			
67-64-1	Acetone	ND	ND		nc	17
78-93-3	2-Butanone (MEK)	ND	ND		nc	10
75-35-4	1,1-Dichloroethene	ND	ND		nc	10
156-59-2	cis-1,2-Dichloroethene	2.4	2.4		0	13
127-18-4	Tetrachloroethene	ND	ND		nc	10
108-88-3	Toluene	ND	ND		nc	10
79-01-6	Trichloroethene	19.3	20.1		4	12

CAS No.	Surrogate Recoveries	DUP	JD34787-2	Limits
1868-53-7	Dibromofluoromethane	95%	94%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	101%	80-121%
2037-26-5	Toluene-D8	95%	95%	80-120%
460-00-4	4-Bromofluorobenzene	92%	96%	80-120%

* = Outside of Control Limits.

5.5.1
 5

Duplicate Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34679-3DUP	3D170790.D	1	11/11/21	NW	n/a	n/a	V3D7248
JD34679-3	3D170785.D	1	11/11/21	NW	n/a	n/a	V3D7248

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-32

CAS No.	Compound	JD34679-3 ug/l	DUP Q	ug/l	Q	RPD	Limits
127-18-4	Tetrachloroethene	7.4		7.6		3	10

CAS No.	Surrogate Recoveries	DUP	JD34679-3	Limits
1868-53-7	Dibromofluoromethane	101%	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	111%	108%	80-121%
2037-26-5	Toluene-D8	103%	104%	80-120%
460-00-4	4-Bromofluorobenzene	100%	99%	80-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8475-BFB	Injection Date: 10/29/21
Lab File ID: 2B186581.D	Injection Time: 15:44
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	25744	18.5	Pass
75	30.0 - 60.0% of mass 95	69010	49.5	Pass
95	Base peak, 100% relative abundance	139288	100.0	Pass
96	5.0 - 9.0% of mass 95	9395	6.75	Pass
173	Less than 2.0% of mass 174	1321	0.95 (1.03) ^a	Pass
174	50.0 - 120.0% of mass 95	128720	92.4	Pass
175	5.0 - 9.0% of mass 174	9993	7.17 (7.76) ^a	Pass
176	95.0 - 101.0% of mass 174	124810	89.6 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	8452	6.07 (6.77) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8475-IC8475	2B186582.D	10/29/21	16:13	00:29	Initial cal 0.2
V2B8475-IC8475	2B186583.D	10/29/21	16:43	00:59	Initial cal 0.5
V2B8475-IC8475	2B186584.D	10/29/21	17:12	01:28	Initial cal 1
V2B8475-IC8475	2B186585.D	10/29/21	17:42	01:58	Initial cal 2
V2B8475-IC8475	2B186586.D	10/29/21	18:11	02:27	Initial cal 4
V2B8475-IC8475	2B186587.D	10/29/21	18:40	02:56	Initial cal 8
V2B8475-IC8475	2B186588.D	10/29/21	19:10	03:26	Initial cal 20
V2B8475-ICC8475	2B186589.D	10/29/21	19:39	03:55	Initial cal 50
V2B8475-IC8475	2B186590.D	10/29/21	20:08	04:24	Initial cal 100
V2B8475-IC8475	2B186591.D	10/29/21	20:37	04:53	Initial cal 200
V2B8475-ICV8475	2B186594.D	10/29/21	22:05	06:21	Initial cal verification 50
V2B8475-ICV8475	2B186595.D	10/29/21	22:34	06:50	Initial cal verification 50
V2B8475-ICV8475	2B186596.D	10/29/21	23:04	07:20	Initial cal verification 50

5.6.1
5

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8491-BFB	Injection Date: 11/09/21
Lab File ID: 2B186945.D	Injection Time: 09:32
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	23728	17.6	Pass
75	30.0 - 60.0% of mass 95	64888	48.1	Pass
95	Base peak, 100% relative abundance	134861	100.0	Pass
96	5.0 - 9.0% of mass 95	8847	6.56	Pass
173	Less than 2.0% of mass 174	866	0.64 (0.66) ^a	Pass
174	50.0 - 120.0% of mass 95	130984	97.1	Pass
175	5.0 - 9.0% of mass 174	10236	7.59 (7.81) ^a	Pass
176	95.0 - 101.0% of mass 174	127301	94.4 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	8452	6.27 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8491-CC8475	2B186945.D	11/09/21	09:32	00:00	Continuing cal 20
V2B8491-BS	2B186947.D	11/09/21	10:36	01:04	Blank Spike
V2B8491-MB	2B186949.D	11/09/21	11:35	02:03	Method Blank
ZZZZZZ	2B186950.D	11/09/21	12:08	02:36	(unrelated sample)
ZZZZZZ	2B186951.D	11/09/21	12:41	03:09	(unrelated sample)
ZZZZZZ	2B186952.D	11/09/21	13:07	03:35	(unrelated sample)
ZZZZZZ	2B186953.D	11/09/21	13:36	04:04	(unrelated sample)
ZZZZZZ	2B186954.D	11/09/21	14:06	04:34	(unrelated sample)
FA90261-9	2B186955.D	11/09/21	14:35	05:03	(used for QC only; not part of job JD34909)
ZZZZZZ	2B186956.D	11/09/21	15:04	05:32	(unrelated sample)
FA90261-9MS	2B186957.D	11/09/21	15:33	06:01	Matrix Spike
FA90261-9MSD	2B186958.D	11/09/21	16:03	06:31	Matrix Spike Duplicate
ZZZZZZ	2B186959.D	11/09/21	16:33	07:01	(unrelated sample)
ZZZZZZ	2B186960.D	11/09/21	17:02	07:30	(unrelated sample)
ZZZZZZ	2B186962.D	11/09/21	18:01	08:29	(unrelated sample)
JD34909-3	2B186965.D	11/09/21	19:29	09:57	SW-1
JD34909-4	2B186966.D	11/09/21	19:58	10:26	SW-5
JD34909-5	2B186967.D	11/09/21	20:27	10:55	PZ-23
JD34909-21	2B186968.D	11/09/21	20:57	11:25	MW208
JD34909-22	2B186969.D	11/09/21	21:26	11:54	MW34

5.6.2
5

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8492-BFB	Injection Date: 11/09/21
Lab File ID: 2B186972.D	Injection Time: 22:54
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	24701	17.6	Pass
75	30.0 - 60.0% of mass 95	67624	48.2	Pass
95	Base peak, 100% relative abundance	140211	100.0	Pass
96	5.0 - 9.0% of mass 95	8878	6.33	Pass
173	Less than 2.0% of mass 174	1450	1.03 (1.09) ^a	Pass
174	50.0 - 120.0% of mass 95	133424	95.2	Pass
175	5.0 - 9.0% of mass 174	10401	7.42 (7.80) ^a	Pass
176	95.0 - 101.0% of mass 174	131597	93.9 (98.6) ^a	Pass
177	5.0 - 9.0% of mass 176	8741	6.23 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8492-CC8475	2B186972.D	11/09/21	22:54	00:00	Continuing cal 50
V2B8492-BS	2B186974.D	11/09/21	23:52	00:58	Blank Spike
V2B8492-MB	2B186976.D	11/10/21	00:51	01:57	Method Blank
JD34909-7	2B186977.D	11/10/21	01:20	02:26	PZ-20
JD34909-6	2B186978.D	11/10/21	01:49	02:55	RX-03
JD34909-7MS	2B186979.D	11/10/21	02:18	03:24	Matrix Spike
JD34909-7MSD	2B186980.D	11/10/21	02:48	03:54	Matrix Spike Duplicate
JD34909-8	2B186982.D	11/10/21	03:46	04:52	PZ-16
JD34909-9	2B186983.D	11/10/21	04:15	05:21	TWP-25
JD34909-10	2B186984.D	11/10/21	04:44	05:50	TWP-26
JD34909-11	2B186985.D	11/10/21	05:14	06:20	EW501
JD34909-12	2B186986.D	11/10/21	05:43	06:49	TWP23
JD34909-13	2B186987.D	11/10/21	06:12	07:18	EW601D
JD34909-14	2B186988.D	11/10/21	06:41	07:47	PZ-17
JD34909-15	2B186989.D	11/10/21	07:10	08:16	MW36D
JD34909-16	2B186990.D	11/10/21	07:39	08:45	MW36D DUPLICATE
JD34909-17	2B186991.D	11/10/21	08:08	09:14	MW35
JD34909-18	2B186992.D	11/10/21	08:38	09:44	MW35D

5.6.3
5

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8493-BFB	Injection Date: 11/10/21
Lab File ID: 2B186997.D	Injection Time: 10:06
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	23251	17.2	Pass
75	30.0 - 60.0% of mass 95	64787	48.0	Pass
95	Base peak, 100% relative abundance	134920	100.0	Pass
96	5.0 - 9.0% of mass 95	8836	6.55	Pass
173	Less than 2.0% of mass 174	1387	1.03 (1.08) ^a	Pass
174	50.0 - 120.0% of mass 95	127936	94.8	Pass
175	5.0 - 9.0% of mass 174	9793	7.26 (7.65) ^a	Pass
176	95.0 - 101.0% of mass 174	125864	93.3 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	7981	5.92 (6.34) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8493-CC8475	2B186997.D	11/10/21	10:06	00:00	Continuing cal 20
V2B8493-BS	2B187001.D	11/10/21	12:06	02:00	Blank Spike
V2B8493-MB	2B187003.D	11/10/21	13:04	02:58	Method Blank
ZZZZZZ	2B187004.D	11/10/21	13:33	03:27	(unrelated sample)
JD34909-6	2B187005.D	11/10/21	14:03	03:57	RX-03
JD34909-2	2B187006.D	11/10/21	14:32	04:26	PZ-21
JD34909-2	2B187007.D	11/10/21	15:02	04:56	PZ-21
ZZZZZZ	2B187008.D	11/10/21	15:30	05:24	(unrelated sample)
ZZZZZZ	2B187009.D	11/10/21	15:59	05:53	(unrelated sample)
JD34909-6MS	2B187010.D	11/10/21	16:28	06:22	Matrix Spike
JD34909-6MSD	2B187011.D	11/10/21	16:57	06:51	Matrix Spike Duplicate
JD34909-7	2B187012.D	11/10/21	17:26	07:20	PZ-20
JD34909-19	2B187013.D	11/10/21	17:56	07:50	MW401B
JD34909-20	2B187014.D	11/10/21	18:25	08:19	PZ-10
JD34909-24	2B187015.D	11/10/21	18:54	08:48	RX-19
JD34909-25	2B187016.D	11/10/21	19:24	09:18	PZ-18
JD34909-26	2B187017.D	11/10/21	19:53	09:47	MW109
JD34909-27	2B187018.D	11/10/21	20:22	10:16	RX28
JD34909-28	2B187019.D	11/10/21	20:52	10:46	RX01
JD34909-29	2B187020.D	11/10/21	21:21	11:15	MW408A
JD34909-30	2B187021.D	11/10/21	21:51	11:45	PZNNBSW-14A

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8494-BFB	Injection Date: 11/10/21
Lab File ID: 2B187023.D	Injection Time: 22:49
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	22963	17.8	Pass
75	30.0 - 60.0% of mass 95	62931	48.7	Pass
95	Base peak, 100% relative abundance	129347	100.0	Pass
96	5.0 - 9.0% of mass 95	8372	6.47	Pass
173	Less than 2.0% of mass 174	1361	1.05 (1.09) ^a	Pass
174	50.0 - 120.0% of mass 95	124517	96.3	Pass
175	5.0 - 9.0% of mass 174	9202	7.11 (7.39) ^a	Pass
176	95.0 - 101.0% of mass 174	121888	94.2 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	8000	6.18 (6.56) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8494-CC8475	2B187023.D	11/10/21	22:49	00:00	Continuing cal 50
V2B8494-BS	2B187025.D	11/10/21	23:47	00:58	Blank Spike
V2B8494-MB	2B187027.D	11/11/21	00:45	01:56	Method Blank
JD34909-31	2B187028.D	11/11/21	01:14	02:25	MW106
JD34909-39	2B187030.D	11/11/21	02:12	03:23	MW101
JD34909-31MS	2B187031.D	11/11/21	02:41	03:52	Matrix Spike
JD34909-31MSD	2B187032.D	11/11/21	03:10	04:21	Matrix Spike Duplicate
JD34909-39	2B187033.D	11/11/21	03:39	04:50	MW101
JD34909-38	2B187034.D	11/11/21	04:08	05:19	RX-7
JD34909-33	2B187035.D	11/11/21	04:37	05:48	EW403
JD34909-34	2B187036.D	11/11/21	05:06	06:17	SW-7
JD34909-35	2B187037.D	11/11/21	05:35	06:46	MW 111
JD34909-36	2B187038.D	11/11/21	06:04	07:15	PZNNB 11A
JD34909-37	2B187039.D	11/11/21	06:33	07:44	RX-13
JD34909-38	2B187043.D	11/11/21	08:29	09:40	RX-7

5.6.5
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Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8495-BFB	Injection Date: 11/11/21
Lab File ID: 2B187046.D	Injection Time: 09:57
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	22616	17.4	Pass
75	30.0 - 60.0% of mass 95	62733	48.3	Pass
95	Base peak, 100% relative abundance	129923	100.0	Pass
96	5.0 - 9.0% of mass 95	8671	6.67	Pass
173	Less than 2.0% of mass 174	1405	1.08 (1.12) ^a	Pass
174	50.0 - 120.0% of mass 95	124984	96.2	Pass
175	5.0 - 9.0% of mass 174	9431	7.26 (7.55) ^a	Pass
176	95.0 - 101.0% of mass 174	121712	93.7 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	8321	6.40 (6.84) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8495-CC8475	2B187046.D	11/11/21	09:57	00:00	Continuing cal 20
V2B8495-BS	2B187048.D	11/11/21	11:11	01:14	Blank Spike
V2B8495-MB	2B187051.D	11/11/21	13:03	03:06	Method Blank
JD34909-1	2B187052.D	11/11/21	13:32	03:35	MW204
JD34909-32	2B187053.D	11/11/21	14:01	04:04	MW33
JD34909-40	2B187054.D	11/11/21	14:30	04:33	RX20
JD34909-40	2B187055.D	11/11/21	14:59	05:02	RX20
JD34909-37	2B187057.D	11/11/21	15:57	06:00	RX-13
JD34909-32MS	2B187058.D	11/11/21	16:27	06:30	Matrix Spike
JD34909-32MSD	2B187059.D	11/11/21	16:56	06:59	Matrix Spike Duplicate
JD34909-1	2B187060.D	11/11/21	17:26	07:29	MW204
JD34909-33	2B187061.D	11/11/21	17:55	07:58	EW403
JD34909-31	2B187062.D	11/11/21	18:24	08:27	MW106
JD34909-37	2B187063.D	11/11/21	18:54	08:57	RX-13
JD34909-23	2B187064.D	11/11/21	19:23	09:26	MW34D
JD34909-41	2B187065.D	11/11/21	19:52	09:55	RX-12
JD34909-42	2B187066.D	11/11/21	20:22	10:25	RX-12 DUP
JD34909-43	2B187067.D	11/11/21	20:51	10:54	TRIP BLANK
ZZZZZZ	2B187068.D	11/11/21	21:20	11:23	(unrelated sample)
ZZZZZZ	2B187069.D	11/11/21	21:50	11:53	(unrelated sample)

5.6.6

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V3D7187-BFB	Injection Date: 10/03/21
Lab File ID: 3D169267.D	Injection Time: 20:52
Instrument ID: GCMS3D	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	35970	18.9	Pass
75	30.0 - 60.0% of mass 95	93648	49.2	Pass
95	Base peak, 100% relative abundance	190442	100.0	Pass
96	5.0 - 9.0% of mass 95	12636	6.64	Pass
173	Less than 2.0% of mass 174	869	0.46 (0.54) ^a	Pass
174	50.0 - 120.0% of mass 95	160384	84.2	Pass
175	5.0 - 9.0% of mass 174	12144	6.38 (7.57) ^a	Pass
176	95.0 - 101.0% of mass 174	157034	82.5 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	10984	5.77 (6.99) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D7187-IC7187	3D169268.D	10/03/21	21:24	00:32	Initial cal 0.2
V3D7187-IC7187	3D169269.D	10/03/21	21:52	01:00	Initial cal 0.5
V3D7187-IC7187	3D169270.D	10/03/21	22:19	01:27	Initial cal 1
V3D7187-IC7187	3D169271.D	10/03/21	22:46	01:54	Initial cal 2
V3D7187-IC7187	3D169272.D	10/03/21	23:14	02:22	Initial cal 4
V3D7187-IC7187	3D169273.D	10/03/21	23:41	02:49	Initial cal 8
V3D7187-IC7187	3D169274.D	10/04/21	00:08	03:16	Initial cal 20
V3D7187-ICC7187	3D169275.D	10/04/21	00:36	03:44	Initial cal 50
V3D7187-IC7187	3D169276.D	10/04/21	01:03	04:11	Initial cal 100
V3D7187-IC7187	3D169277.D	10/04/21	01:30	04:38	Initial cal 200
V3D7187-ICV7187	3D169280.D	10/04/21	02:52	06:00	Initial cal verification 50
V3D7187-ICV7187	3D169281.D	10/04/21	03:19	06:27	Initial cal verification 50

5.6.7
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Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V3D7248-BFB	Injection Date: 11/11/21
Lab File ID: 3D170774.D	Injection Time: 09:39
Instrument ID: GCMS3D	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	37677	20.4	Pass
75	30.0 - 60.0% of mass 95	95995	51.9	Pass
95	Base peak, 100% relative abundance	185067	100.0	Pass
96	5.0 - 9.0% of mass 95	12004	6.49	Pass
173	Less than 2.0% of mass 174	830	0.45 (0.56) ^a	Pass
174	50.0 - 120.0% of mass 95	147075	79.5	Pass
175	5.0 - 9.0% of mass 174	10934	5.91 (7.43) ^a	Pass
176	95.0 - 101.0% of mass 174	140901	76.1 (95.8) ^a	Pass
177	5.0 - 9.0% of mass 176	9662	5.22 (6.86) ^b	Pass

(a) Value is % of mass 174
 (b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D7248-CC7187	3D170774.D	11/11/21	09:39	00:00	Continuing cal 20
V3D7248-BS	3D170776.D	11/11/21	10:49	01:10	Blank Spike
V3D7247-BS2	3D170776.D	11/11/21	10:49	01:10	Blank Spike
V3D7248-MB	3D170778.D	11/11/21	11:43	02:04	Method Blank
V3D7247-MB2	3D170778.D	11/11/21	11:43	02:04	Method Blank
JD34865-3DUP	3D170780.D	11/11/21	12:48	03:09	Duplicate
JD34865-2MS	3D170781.D	11/11/21	13:15	03:36	Matrix Spike
JD34909-32	3D170782.D	11/11/21	13:42	04:03	MW33
JD34679-2	3D170784.D	11/11/21	14:36	04:57	(used for QC only; not part of job JD34909)
JD34679-3	3D170785.D	11/11/21	15:04	05:25	(used for QC only; not part of job JD34909)
ZZZZZZ	3D170786.D	11/11/21	15:31	05:52	(unrelated sample)
ZZZZZZ	3D170787.D	11/11/21	15:58	06:19	(unrelated sample)
JD34679-2MS	3D170788.D	11/11/21	16:25	06:46	Matrix Spike
JD34679-3DUP	3D170790.D	11/11/21	17:19	07:40	Duplicate
ZZZZZZ	3D170791.D	11/11/21	17:47	08:08	(unrelated sample)
ZZZZZZ	3D170792.D	11/11/21	18:14	08:35	(unrelated sample)
ZZZZZZ	3D170793.D	11/11/21	18:41	09:02	(unrelated sample)
ZZZZZZ	3D170794.D	11/11/21	19:08	09:29	(unrelated sample)
ZZZZZZ	3D170795.D	11/11/21	19:35	09:56	(unrelated sample)
ZZZZZZ	3D170796.D	11/11/21	20:02	10:23	(unrelated sample)
ZZZZZZ	3D170797.D	11/11/21	20:30	10:51	(unrelated sample)
ZZZZZZ	3D170799.D	11/11/21	21:24	11:45	(unrelated sample)

5.6.8

Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V4D5041-BFB	Injection Date: 10/29/21
Lab File ID: 4D113284.D	Injection Time: 23:53
Instrument ID: GCMS4D	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	22845	21.4	Pass
75	30.0 - 60.0% of mass 95	50768	47.7	Pass
95	Base peak, 100% relative abundance	106536	100.0	Pass
96	5.0 - 9.0% of mass 95	6998	6.57	Pass
173	Less than 2.0% of mass 174	356	0.33 (0.39) ^a	Pass
174	50.0 - 120.0% of mass 95	92045	86.4	Pass
175	5.0 - 9.0% of mass 174	7113	6.68 (7.73) ^a	Pass
176	95.0 - 101.0% of mass 174	88035	82.6 (95.6) ^a	Pass
177	5.0 - 9.0% of mass 176	5852	5.49 (6.65) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5041-IC5041	4D113285.D	10/30/21	00:22	00:29	Initial cal 0.2
V4D5041-IC5041	4D113286.D	10/30/21	00:50	00:57	Initial cal 0.5
V4D5041-IC5041	4D113287.D	10/30/21	01:19	01:26	Initial cal 1
V4D5041-IC5041	4D113288.D	10/30/21	01:48	01:55	Initial cal 2
V4D5041-IC5041	4D113289.D	10/30/21	02:16	02:23	Initial cal 4
V4D5041-IC5041	4D113290.D	10/30/21	02:45	02:52	Initial cal 8
V4D5041-IC5041	4D113291.D	10/30/21	03:14	03:21	Initial cal 20
V4D5041-ICC5041	4D113292.D	10/30/21	03:42	03:49	Initial cal 50
V4D5041-IC5041	4D113293.D	10/30/21	04:11	04:18	Initial cal 100
V4D5041-IC5041	4D113294.D	10/30/21	04:39	04:46	Initial cal 200
V4D5041-ICV5041	4D113297.D	10/30/21	06:05	06:12	Initial cal verification 50
V4D5041-ICV5041	4D113298.D	10/30/21	06:34	06:41	Initial cal verification 50
V4D5041-ICV5041	4D113299.D	10/30/21	07:02	07:09	Initial cal verification 50

5.6.9
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Instrument Performance Check (BFB)

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V4D5054-BFB	Injection Date: 11/11/21
Lab File ID: 4D113613.D	Injection Time: 09:45
Instrument ID: GCMS4D	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	24395	23.2	Pass
75	30.0 - 60.0% of mass 95	50901	48.3	Pass
95	Base peak, 100% relative abundance	105291	100.0	Pass
96	5.0 - 9.0% of mass 95	6986	6.63	Pass
173	Less than 2.0% of mass 174	900	0.85 (0.95) ^a	Pass
174	50.0 - 120.0% of mass 95	94837	90.1	Pass
175	5.0 - 9.0% of mass 174	7371	7.00 (7.77) ^a	Pass
176	95.0 - 101.0% of mass 174	91395	86.8 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	5992	5.69 (6.56) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D5054-CC5041	4D113613.D	11/11/21	09:45	00:00	Continuing cal 20
V4D5054-BS	4D113615.D	11/11/21	10:55	01:10	Blank Spike
V4D5054-MB	4D113617.D	11/11/21	11:52	02:07	Method Blank
ZZZZZZ	4D113618.D	11/11/21	12:21	02:36	(unrelated sample)
ZZZZZZ	4D113619.D	11/11/21	12:50	03:05	(unrelated sample)
JD34787-1	4D113620.D	11/11/21	13:18	03:33	(used for QC only; not part of job JD34909)
JD34787-2	4D113621.D	11/11/21	13:47	04:02	(used for QC only; not part of job JD34909)
ZZZZZZ	4D113622.D	11/11/21	14:16	04:31	(unrelated sample)
ZZZZZZ	4D113623.D	11/11/21	14:44	04:59	(unrelated sample)
ZZZZZZ	4D113624.D	11/11/21	15:13	05:28	(unrelated sample)
ZZZZZZ	4D113625.D	11/11/21	15:41	05:56	(unrelated sample)
JD34787-1MS	4D113626.D	11/11/21	16:10	06:25	Matrix Spike
ZZZZZZ	4D113627.D	11/11/21	16:38	06:53	(unrelated sample)
JD34787-2DUP	4D113628.D	11/11/21	17:07	07:22	Duplicate
JD34909-31	4D113629.D	11/11/21	17:35	07:50	MW106
ZZZZZZ	4D113630.D	11/11/21	18:04	08:19	(unrelated sample)
ZZZZZZ	4D113631.D	11/11/21	18:32	08:47	(unrelated sample)
ZZZZZZ	4D113632.D	11/11/21	19:01	09:16	(unrelated sample)
ZZZZZZ	4D113633.D	11/11/21	19:29	09:44	(unrelated sample)
ZZZZZZ	4D113634.D	11/11/21	19:58	10:13	(unrelated sample)
ZZZZZZ	4D113636.D	11/11/21	20:55	11:10	(unrelated sample)
ZZZZZZ	4D113637.D	11/11/21	21:24	11:39	(unrelated sample)

5.6.10
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Surrogate Recovery Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD34909-1	2B187052.D	103	100	101	97
JD34909-1	2B187060.D	104	97	102	100
JD34909-2	2B187007.D	104	100	102	97
JD34909-2	2B187006.D	104	102	100	100
JD34909-3	2B186965.D	99	96	100	100
JD34909-4	2B186966.D	100	95	100	97
JD34909-5	2B186967.D	101	96	101	99
JD34909-6	2B187005.D	104	97	102	98
JD34909-6	2B186978.D	103	97	100	97
JD34909-7	2B187012.D	103	99	103	99
JD34909-7	2B186977.D	103	97	103	98
JD34909-8	2B186982.D	101	99	102	99
JD34909-9	2B186983.D	103	96	101	101
JD34909-10	2B186984.D	104	100	101	98
JD34909-11	2B186985.D	105	97	103	99
JD34909-12	2B186986.D	105	98	102	100
JD34909-13	2B186987.D	104	101	101	99
JD34909-14	2B186988.D	104	100	102	98
JD34909-15	2B186989.D	106	100	100	99
JD34909-16	2B186990.D	105	100	102	99
JD34909-17	2B186991.D	102	101	101	98
JD34909-18	2B186992.D	103	99	101	98
JD34909-19	2B187013.D	104	99	102	100
JD34909-20	2B187014.D	105	100	102	96
JD34909-21	2B186968.D	102	98	100	97
JD34909-22	2B186969.D	102	99	101	98
JD34909-23	2B187064.D	106	100	102	99
JD34909-24	2B187015.D	104	98	103	97
JD34909-25	2B187016.D	102	99	102	97
JD34909-26	2B187017.D	103	97	103	100
JD34909-27	2B187018.D	104	99	104	98
JD34909-28	2B187019.D	102	99	103	97
JD34909-29	2B187020.D	105	100	103	99
JD34909-30	2B187021.D	106	99	102	98
JD34909-31	4D113629.D	96	104	94	94
JD34909-31	2B187028.D	104	95	101	93
JD34909-31	2B187062.D	106	98	102	99
JD34909-32	2B187053.D	103	100	103	98
JD34909-32	3D170782.D	100	106	106	102
JD34909-33	2B187061.D	104	100	101	98

5.7.1
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Surrogate Recovery Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD34909-33	2B187035.D	104	99	101	94
JD34909-34	2B187036.D	104	102	102	100
JD34909-35	2B187037.D	105	99	104	100
JD34909-36	2B187038.D	106	102	101	101
JD34909-37	2B187057.D	107	102	105	99
JD34909-37	2B187063.D	105	101	103	97
JD34909-37	2B187039.D	102	94	104	93
JD34909-38	2B187043.D	104	101	103	100
JD34909-38	2B187034.D	103	100	103	100
JD34909-39	2B187033.D	102	98	102	101
JD34909-39	2B187030.D	104	100	101	99
JD34909-40	2B187055.D	104	101	104	98
JD34909-40	2B187054.D	105	101	102	98
JD34909-41	2B187065.D	106	101	103	99
JD34909-42	2B187066.D	107	100	102	99
JD34909-43	2B187067.D	106	101	100	98
FA90261-9MS	2B186957.D	100	93	97	94
FA90261-9MSD	2B186958.D	100	92	98	95
JD34679-2MS	3D170788.D	102	102	99	107
JD34679-3DUP	3D170790.D	101	111	103	100
JD34787-1MS	4D113626.D	95	102	94	94
JD34787-2DUP	4D113628.D	95	100	95	92
JD34909-31MS	2B187031.D	102	94	98	94
JD34909-31MSD	2B187032.D	102	94	98	95
JD34909-32MS	2B187058.D	103	95	99	95
JD34909-32MSD	2B187059.D	102	95	99	94
JD34909-6MS	2B187010.D	101	94	99	96
JD34909-6MSD	2B187011.D	101	93	99	96
JD34909-7MS	2B186979.D	101	94	97	95
JD34909-7MSD	2B186980.D	100	93	99	96
V2B8491-BS	2B186947.D	102	95	99	95
V2B8491-MB	2B186949.D	102	100	99	98
V2B8492-BS	2B186974.D	100	92	97	95
V2B8492-MB	2B186976.D	102	98	100	98
V2B8493-BS	2B187001.D	101	93	99	95
V2B8493-MB	2B187003.D	103	100	102	99
V2B8494-BS	2B187025.D	101	96	98	94
V2B8494-MB	2B187027.D	104	102	102	98
V2B8495-BS	2B187048.D	103	95	99	94
V2B8495-MB	2B187051.D	106	104	101	97

5.7.1
5

Surrogate Recovery Summary

Job Number: JD34909
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
V3D7248-BS	3D170776.D	103	102	99	107
V3D7248-MB	3D170778.D	99	107	104	99
V4D5054-BS	4D113615.D	95	100	94	96
V4D5054-MB	4D113617.D	97	105	95	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

5.7.1
5

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Groundwater & Environmental Services

BASF, 55 Crowley Road, Lewiston, ME

1605501 PO#1605501/53/873 ORG 1116

SGS Job Number: JD34909R

Sampling Dates: 11/01/21 - 11/05/21

Report to:

Groundwater & Environmental Services
One Park Drive, Suite 8
Westford, MA 01886
BHoran@GesOnline.com; kkitchin@gesonline.com;
neregion@gesonline.com
ATTN: Kevin Kitchin

Total number of pages in report: **90**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A blue ink signature of David Chastain.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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5



Sample Summary

Groundwater & Environmental Services

Job No: JD34909R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the RL

JD34909-1R	11/01/21	15:20	LW	11/05/21	AQ	Ground Water	MW204
JD34909-2R	11/01/21	16:10	LW	11/05/21	AQ	Ground Water	PZ-21
JD34909-3R	11/01/21	15:25	LW	11/05/21	AQ	Ground Water	SW-1
JD34909-4R	11/01/21	15:55	LW	11/05/21	AQ	Ground Water	SW-5
JD34909-5R	11/02/21	08:25	LW	11/05/21	AQ	Ground Water	PZ-23
JD34909-6R	11/02/21	10:20	LW	11/05/21	AQ	Ground Water	RX-03
JD34909-7R	11/02/21	11:20	LW	11/05/21	AQ	Ground Water	PZ-20
JD34909-8R	11/02/21	13:10	LW	11/05/21	AQ	Ground Water	PZ-16
JD34909-9R	11/02/21	14:00	LW	11/05/21	AQ	Ground Water	TWP-25
JD34909-10R	11/02/21	12:23	LW	11/05/21	AQ	Ground Water	TWP-26
JD34909-11R	11/02/21	15:55	LW	11/05/21	AQ	Ground Water	EW501
JD34909-12R	11/02/21	14:35	LW	11/05/21	AQ	Ground Water	TWP23



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-13R	11/02/21	15:45 LW	11/05/21	AQ	Ground Water	EW601D
JD34909-14R	11/03/21	09:45 LW	11/05/21	AQ	Ground Water	PZ-17
JD34909-15R	11/03/21	11:05 LW	11/05/21	AQ	Ground Water	MW36D
JD34909-16R	11/03/21	11:05 LW	11/05/21	AQ	Ground Water	MW36D DUPLICATE
JD34909-17R	11/03/21	12:10 LW	11/05/21	AQ	Ground Water	MW35
JD34909-18R	11/03/21	12:55 LW	11/05/21	AQ	Ground Water	MW35D
JD34909-19R	11/03/21	15:05 LW	11/05/21	AQ	Ground Water	MW401B
JD34909-20R	11/03/21	16:05 LW	11/05/21	AQ	Ground Water	PZ-10
JD34909-21R	11/03/21	16:50 LW	11/05/21	AQ	Ground Water	MW208
JD34909-22R	11/03/21	10:00 LW	11/05/21	AQ	Ground Water	MW34
JD34909-23R	11/03/21	13:10 LW	11/05/21	AQ	Ground Water	MW34D
JD34909-24R	11/03/21	15:20 LW	11/05/21	AQ	Ground Water	RX-19
JD34909-25R	11/03/21	13:58 LW	11/05/21	AQ	Ground Water	PZ-18



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-26R	11/04/21	08:55 LW	11/05/21	AQ	Ground Water	MW109
JD34909-27R	11/04/21	11:40 LW	11/05/21	AQ	Ground Water	RX28
JD34909-28R	11/04/21	12:40 LW	11/05/21	AQ	Ground Water	RX01
JD34909-29R	11/04/21	13:40 LW	11/05/21	AQ	Ground Water	MW408A
JD34909-30R	11/03/21	17:00 LW	11/05/21	AQ	Surface Water	PZNNBSW-14A
JD34909-31R	11/04/21	10:50 LW	11/05/21	AQ	Ground Water	MW106
JD34909-32R	11/04/21	13:37 LW	11/05/21	AQ	Ground Water	MW33
JD34909-33R	11/04/21	12:35 LW	11/05/21	AQ	Ground Water	EW403
JD34909-34R	11/04/21	14:00 LW	11/05/21	AQ	Surface Water	SW-7
JD34909-35R	11/04/21	11:36 LW	11/05/21	AQ	Ground Water	MW 111
JD34909-36R	11/04/21	14:35 LW	11/05/21	AQ	Ground Water	PZNNB 11A
JD34909-37R	11/04/21	15:35 LW	11/05/21	AQ	Ground Water	RX-13
JD34909-38R	11/04/21	15:30 LW	11/05/21	AQ	Ground Water	RX-7



Sample Summary

(continued)

Groundwater & Environmental Services

Job No: JD34909R

BASF, 55 Crowley Road, Lewiston, ME

Project No: 1605501 PO#1605501/53/873 ORG 1116

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JD34909-39R	11/04/21	16:15 LW	11/05/21	AQ	Ground Water	MW101
JD34909-40R	11/05/21	10:05 LW	11/05/21	AQ	Ground Water	RX20
JD34909-41R	11/05/21	09:58 LW	11/05/21	AQ	Ground Water	RX-12
JD34909-42R	11/05/21	09:58 LW	11/05/21	AQ	Ground Water	RX-12 DUP
JD34909-43R	11/05/21	10:05 LW	11/05/21	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JD34909R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD34909-1R **MW204**

No hits reported in this sample.

JD34909-2R **PZ-21**

1,4-Dioxane ^a	157	130		ug/l	SW846 8260D
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JD34909-3R **SW-1**

No hits reported in this sample.

JD34909-4R **SW-5**

No hits reported in this sample.

JD34909-5R **PZ-23**

No hits reported in this sample.

JD34909-6R **RX-03**

No hits reported in this sample.

JD34909-7R **PZ-20**

No hits reported in this sample.

JD34909-8R **PZ-16**

No hits reported in this sample.

JD34909-9R **TWP-25**

No hits reported in this sample.

JD34909-10R **TWP-26**

No hits reported in this sample.

JD34909-11R **EW501**

No hits reported in this sample.

Summary of Hits

Job Number: JD34909R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD34909-12R TWP23

No hits reported in this sample.

JD34909-13R EW601D

No hits reported in this sample.

JD34909-14R PZ-17

No hits reported in this sample.

JD34909-15R MW36D

No hits reported in this sample.

JD34909-16R MW36D DUPLICATE

No hits reported in this sample.

JD34909-17R MW35

No hits reported in this sample.

JD34909-18R MW35D

No hits reported in this sample.

JD34909-19R MW401B

No hits reported in this sample.

JD34909-20R PZ-10

No hits reported in this sample.

JD34909-21R MW208

No hits reported in this sample.

JD34909-22R MW34

No hits reported in this sample.

Summary of Hits

Job Number: JD34909R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD34909-23R MW34D

No hits reported in this sample.

JD34909-24R RX-19

No hits reported in this sample.

JD34909-25R PZ-18

No hits reported in this sample.

JD34909-26R MW109

No hits reported in this sample.

JD34909-27R RX28

No hits reported in this sample.

JD34909-28R RX01

No hits reported in this sample.

JD34909-29R MW408A

No hits reported in this sample.

JD34909-30R PZNNBSW-14A

No hits reported in this sample.

JD34909-31R MW106

1,4-Dioxane ^b 2420 630 ug/l SW846 8260D

JD34909-32R MW33

No hits reported in this sample.

JD34909-33R EW403

No hits reported in this sample.

Summary of Hits

Job Number: JD34909R
Account: Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME
Collected: 11/01/21 thru 11/05/21

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD34909-34R SW-7

No hits reported in this sample.

JD34909-35R MW 111

No hits reported in this sample.

JD34909-36R PZNNB 11A

No hits reported in this sample.

JD34909-37R RX-13

No hits reported in this sample.

JD34909-38R RX-7

No hits reported in this sample.

JD34909-39R MW101

No hits reported in this sample.

JD34909-40R RX20

No hits reported in this sample.

JD34909-41R RX-12

No hits reported in this sample.

JD34909-42R RX-12 DUP

No hits reported in this sample.

JD34909-43R TRIP BLANK

No hits reported in this sample.

- (a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
 (b) Dilution required due to high concentration of non-target compound.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: MW204	Date Sampled: 11/01/21
Lab Sample ID: JD34909-1R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187052R.D	1	11/11/21 13:32	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: PZ-21	Date Sampled: 11/01/21
Lab Sample ID: JD34909-2R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187007R.D	1	11/10/21 15:02	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	157	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-1 Lab Sample ID: JD34909-3R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 11/01/21 Date Received: 11/05/21 Percent Solids: n/a
--	---

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186965R.D	1	11/09/21 19:29	TS	n/a	n/a	V2B8491
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: SW-5	
Lab Sample ID: JD34909-4R	Date Sampled: 11/01/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186966R.D	1	11/09/21 19:58	TS	n/a	n/a	V2B8491
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	100%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%	
2037-26-5	Toluene-D8	100%		80-120%	
460-00-4	4-Bromofluorobenzene	97%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID: PZ-23	
Lab Sample ID: JD34909-5R	Date Sampled: 11/02/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186967R.D	1	11/09/21 20:27	TS	n/a	n/a	V2B8491
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	101%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: RX-03	Date Sampled: 11/02/21
Lab Sample ID: JD34909-6R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187005R.D	25	11/10/21 14:03	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^b	ND	3100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

- (a) Dilution required due to high concentration of non-target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	--

Report of Analysis

37
3

Client Sample ID: PZ-20	
Lab Sample ID: JD34909-7R	Date Sampled: 11/02/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B186977R.D	25	11/10/21 01:20	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	3100	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	103%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%	
2037-26-5	Toluene-D8	103%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID: PZ-16		
Lab Sample ID: JD34909-8R		Date Sampled: 11/02/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186982R.D	1	11/10/21 03:46	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.9
3

Client Sample ID: TWP-25	Date Sampled: 11/02/21
Lab Sample ID: JD34909-9R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186983R.D	1	11/10/21 04:15	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP-26		
Lab Sample ID: JD34909-10R		Date Sampled: 11/02/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186984R.D	1	11/10/21 04:44	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW501	Date Sampled: 11/02/21
Lab Sample ID: JD34909-11R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186985R.D	1	11/10/21 05:14	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	105%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%	
2037-26-5	Toluene-D8	103%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP23		
Lab Sample ID: JD34909-12R		Date Sampled: 11/02/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186986R.D	1	11/10/21 05:43	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	105%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%	
2037-26-5	Toluene-D8	102%		80-120%	
460-00-4	4-Bromofluorobenzene	100%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW601D Lab Sample ID: JD34909-13R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 11/02/21 Date Received: 11/05/21 Percent Solids: n/a
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	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186987R.D	1	11/10/21 06:12	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-17	Date Sampled: 11/03/21
Lab Sample ID: JD34909-14R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186988R.D	1	11/10/21 06:41	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D		
Lab Sample ID: JD34909-15R		Date Sampled: 11/03/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186989R.D	1	11/10/21 07:10	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW36D DUPLICATE	
Lab Sample ID: JD34909-16R	Date Sampled: 11/03/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186990R.D	1	11/10/21 07:39	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	105%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%	
2037-26-5	Toluene-D8	102%		80-120%	
460-00-4	4-Bromofluorobenzene	99%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35	Date Sampled: 11/03/21
Lab Sample ID: JD34909-17R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186991R.D	1	11/10/21 08:08	TS	n/a	n/a	V2B8492
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW35D	
Lab Sample ID: JD34909-18R	Date Sampled: 11/03/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186992R.D	1	11/10/21 08:38	TS	n/a	n/a	V2B8492
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	103%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW401B	Date Sampled: 11/03/21
Lab Sample ID: JD34909-19R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187013R.D	1	11/10/21 17:56	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-10	Date Sampled: 11/03/21
Lab Sample ID: JD34909-20R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187014R.D	1	11/10/21 18:25	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW208	
Lab Sample ID: JD34909-21R	Date Sampled: 11/03/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186968R.D	1	11/09/21 20:57	TS	n/a	n/a	V2B8491
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%	
2037-26-5	Toluene-D8	100%		80-120%	
460-00-4	4-Bromofluorobenzene	97%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34	
Lab Sample ID: JD34909-22R	Date Sampled: 11/03/21
Matrix: AQ - Ground Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B186969R.D	1	11/09/21 21:26	TS	n/a	n/a	V2B8491
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW34D	Date Sampled: 11/03/21
Lab Sample ID: JD34909-23R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187064R.D	1	11/11/21 19:23	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-19	Date Sampled: 11/03/21
Lab Sample ID: JD34909-24R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187015R.D	1	11/10/21 18:54	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZ-18 Lab Sample ID: JD34909-25R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 11/03/21 Date Received: 11/05/21 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187016R.D	1	11/10/21 19:24	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW109	Date Sampled: 11/04/21
Lab Sample ID: JD34909-26R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187017R.D	1	11/10/21 19:53	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX28		
Lab Sample ID: JD34909-27R		Date Sampled: 11/04/21
Matrix: AQ - Ground Water		Date Received: 11/05/21
Method: SW846 8260D		Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187018R.D	1	11/10/21 20:22	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%	
2037-26-5	Toluene-D8	104%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX01 Lab Sample ID: JD34909-28R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 11/04/21 Date Received: 11/05/21 Percent Solids: n/a
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187019R.D	50	11/10/21 20:52	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^b	ND	6300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

- (a) Dilution required due to high concentration of non-target compound.
- (b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW408A	Date Sampled: 11/04/21
Lab Sample ID: JD34909-29R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187020R.D	1	11/10/21 21:21	TS	n/a	n/a	V2B8493
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNBSW-14A	
Lab Sample ID: JD34909-30R	Date Sampled: 11/03/21
Matrix: AQ - Surface Water	Date Received: 11/05/21
Method: SW846 8260D	Percent Solids: n/a
Project: BASF, 55 Crowley Road, Lewiston, ME	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187021R.D	1	11/10/21 21:51	TS	n/a	n/a	V2B8493
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane ^a	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW106	Date Sampled: 11/04/21
Lab Sample ID: JD34909-31R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187028R.D	5	11/11/21 01:14	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	2420	630	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	93%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW33		Date Sampled: 11/04/21
Lab Sample ID: JD34909-32R		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187053R.D	4	11/11/21 14:01	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	500	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	103%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%	
2037-26-5	Toluene-D8	103%		80-120%	
460-00-4	4-Bromofluorobenzene	98%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EW403	Date Sampled: 11/04/21
Lab Sample ID: JD34909-33R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187035R.D	20	11/11/21 04:37	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	2500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SW-7		Date Sampled: 11/04/21
Lab Sample ID: JD34909-34R		Date Received: 11/05/21
Matrix: AQ - Surface Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187036R.D	1	11/11/21 05:06	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	104%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%	
2037-26-5	Toluene-D8	102%		80-120%	
460-00-4	4-Bromofluorobenzene	100%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW 111		Date Sampled: 11/04/21
Lab Sample ID: JD34909-35R		Date Received: 11/05/21
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260D		
Project: BASF, 55 Crowley Road, Lewiston, ME		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187037R.D	100	11/11/21 05:35	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	13000	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	105%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%	
2037-26-5	Toluene-D8	104%		80-120%	
460-00-4	4-Bromofluorobenzene	100%		82-114%	

(a) Dilution required due to high concentraton of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PZNNB 11A	Date Sampled: 11/04/21
Lab Sample ID: JD34909-36R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187038R.D	1	11/11/21 06:04	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	106%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%	
2037-26-5	Toluene-D8	101%		80-120%	
460-00-4	4-Bromofluorobenzene	101%		82-114%	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-13	Date Sampled: 11/04/21
Lab Sample ID: JD34909-37R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187039R.D	4	11/11/21 06:33	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	500	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	102%		80-120%	
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%	
2037-26-5	Toluene-D8	104%		80-120%	
460-00-4	4-Bromofluorobenzene	93%		82-114%	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-7	Date Sampled: 11/04/21
Lab Sample ID: JD34909-38R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187043R.D	50	11/11/21 08:29	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	6300	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW101	Date Sampled: 11/04/21
Lab Sample ID: JD34909-39R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B187030R.D	100	11/11/21 02:12	TS	n/a	n/a	V2B8494
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	13000	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX20	Date Sampled: 11/05/21
Lab Sample ID: JD34909-40R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187055R.D	1	11/11/21 14:59	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12 Lab Sample ID: JD34909-41R Matrix: AQ - Ground Water Method: SW846 8260D Project: BASF, 55 Crowley Road, Lewiston, ME	Date Sampled: 11/05/21 Date Received: 11/05/21 Percent Solids: n/a
--	---

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187065R.D	1	11/11/21 19:52	TS	n/a	n/a	V2B8495
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RX-12 DUP	Date Sampled: 11/05/21
Lab Sample ID: JD34909-42R	Date Received: 11/05/21
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187066R.D	1	11/11/21 20:22	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK	Date Sampled: 11/05/21
Lab Sample ID: JD34909-43R	Date Received: 11/05/21
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: SW846 8260D	
Project: BASF, 55 Crowley Road, Lewiston, ME	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B187067R.D	1	11/11/21 20:51	TS	n/a	n/a	V2B8495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

Form containing client information (Company Name: Groundwater and Environmental Services, Inc.), project details (Project Name: BASF Lewiston), collection data table (Lab Sample #, Field ID, Date, Time, Matrix, # of bottles), and chain of custody signatures (Received by: 1, 2, 3, 4, 5).

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CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusua

Form containing client/reporting information, project details, sample collection table, data deliverable information, and chain of custody signatures.

JD34909R: Chain of Custody

Page 3 of 6



SGS Sample Receipt Summary

Job Number: JD34909

Client: GROUNDWATER & ENVIRONMENTAL SE

Project: BASF, 55 CROWLEY ROAD, LEWISTON, ME

Date / Time Received: 11/5/2021 2:30:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (0.9);

Cooler Temps (Corrected) °C: Cooler 1: (0.9);

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s:	pH 1-12: <u>231619</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
--------------------	------------------------	------------------------	------------------------

Comments

SM089-03
Rev. Date 12/7/17

JD34909R: Chain of Custody

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4.1
4

Job Change Order: JD34909

Requested Date: 7/21/2022 **Received Date:** 11/5/2021
Account Name: Groundwater & Environmental Se **Due Date:** 7/21/2022
Project Description: BASF, 55 Crowley Road, Lewiston, ME **Deliverable:** COMMB
C/O Initiated By: BETH WASS **PM:** MM **TAT (Days):** 14

=====
Sample #: JD34909-All **Change:**
Dept: Relog/retrieve for VR826014DIOXANE

TAT: 14

=====

JD34909R: Chain of Custody
Page 6 of 6

Above Changes Per: Brian Horan **Date/Time:** 7/22/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-MB	2B186949.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3R, JD34909-4R, JD34909-5R, JD34909-21R, JD34909-22R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-MB	2B186976.D	1	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-7R, JD34909-8R, JD34909-9R, JD34909-10R, JD34909-11R, JD34909-12R, JD34909-13R, JD34909-14R, JD34909-15R, JD34909-16R, JD34909-17R, JD34909-18R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	98%	80-121%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-MB	2B187003.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2R, JD34909-6R, JD34909-19R, JD34909-20R, JD34909-24R, JD34909-25R, JD34909-26R, JD34909-27R, JD34909-28R, JD34909-29R, JD34909-30R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	100%	80-121%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-MB	2B187027.D	1	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31R, JD34909-33R, JD34909-34R, JD34909-35R, JD34909-36R, JD34909-37R, JD34909-38R, JD34909-39R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	102%	80-121%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	98%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-MB	2B187051.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD34909-1R, JD34909-23R, JD34909-32R, JD34909-40R, JD34909-41R, JD34909-42R, JD34909-43R

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	130	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	106%	85-118%
17060-07-0	1,2-Dichloroethane-D4	104%	80-121%
2037-26-5	Toluene-D8	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8491-BS	2B186947.D	1	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3R, JD34909-4R, JD34909-5R, JD34909-21R, JD34909-22R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1190	95	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8492-BS	2B186974.D	1	11/09/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-7R, JD34909-8R, JD34909-9R, JD34909-10R, JD34909-11R, JD34909-12R, JD34909-13R, JD34909-14R, JD34909-15R, JD34909-16R, JD34909-17R, JD34909-18R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1290	103	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	92%	80-121%
2037-26-5	Toluene-D8	97%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8493-BS	2B187001.D	1	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2R, JD34909-6R, JD34909-19R, JD34909-20R, JD34909-24R, JD34909-25R, JD34909-26R, JD34909-27R, JD34909-28R, JD34909-29R, JD34909-30R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1230	98	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	95%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8494-BS	2B187025.D	1	11/10/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31R, JD34909-33R, JD34909-34R, JD34909-35R, JD34909-36R, JD34909-37R, JD34909-38R, JD34909-39R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1280	102	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	96%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2B8495-BS	2B187048.D	1	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1R, JD34909-23R, JD34909-32R, JD34909-40R, JD34909-41R, JD34909-42R, JD34909-43R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1250	1250	100	73-138

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	80-121%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA90261-9MS	2B186957.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9MSD	2B186958.D	10	11/09/21	TS	n/a	n/a	V2B8491
FA90261-9 ^a	2B186955.D	10	11/09/21	TS	n/a	n/a	V2B8491

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-3R, JD34909-4R, JD34909-5R, JD34909-21R, JD34909-22R

CAS No.	Compound	FA90261-9 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	1300 U	12500	12200	98	12500	13400	107	9	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	FA90261-9	Limits
1868-53-7	Dibromofluoromethane	100%	100%	102%	85-118%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	99%	80-121%
2037-26-5	Toluene-D8	97%	98%	100%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	91%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.3.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-7MS	2B186979.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7MSD	2B186980.D	25	11/10/21	TS	n/a	n/a	V2B8492
JD34909-7 ^a	2B186977.D	25	11/10/21	TS	n/a	n/a	V2B8492

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-7R, JD34909-8R, JD34909-9R, JD34909-10R, JD34909-11R, JD34909-12R, JD34909-13R, JD34909-14R, JD34909-15R, JD34909-16R, JD34909-17R, JD34909-18R

CAS No.	Compound	JD34909-7 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	31300	30100	96	31300	32800	105	9	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-7	Limits
1868-53-7	Dibromofluoromethane	101%	100%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	97%	80-121%
2037-26-5	Toluene-D8	97%	99%	103%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	98%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.3.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-6MS	2B187010.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6MSD	2B187011.D	25	11/10/21	TS	n/a	n/a	V2B8493
JD34909-6 ^a	2B187005.D	25	11/10/21	TS	n/a	n/a	V2B8493

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-2R, JD34909-6R, JD34909-19R, JD34909-20R, JD34909-24R, JD34909-25R, JD34909-26R, JD34909-27R, JD34909-28R, JD34909-29R, JD34909-30R

CAS No.	Compound	JD34909-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	31300	29500	94	31300	31700	101	7	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-6	Limits
1868-53-7	Dibromofluoromethane	101%	101%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	97%	80-121%
2037-26-5	Toluene-D8	99%	99%	102%	80-120%
460-00-4	4-Bromofluorobenzene	96%	96%	98%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.3.3
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-31MS	2B187031.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31MSD	2B187032.D	5	11/11/21	TS	n/a	n/a	V2B8494
JD34909-31 ^a	2B187028.D	5	11/11/21	TS	n/a	n/a	V2B8494

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-31R, JD34909-33R, JD34909-34R, JD34909-35R, JD34909-36R, JD34909-37R, JD34909-38R, JD34909-39R

CAS No.	Compound	JD34909-31 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	2420	6250	8190	92	6250	9240	109	12	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-31	Limits
1868-53-7	Dibromofluoromethane	102%	102%	104%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	94%	95%	80-121%
2037-26-5	Toluene-D8	98%	98%	101%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	93%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.3.4
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD34909-32MS	2B187058.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32MSD	2B187059.D	4	11/11/21	TS	n/a	n/a	V2B8495
JD34909-32 ^a	2B187053.D	4	11/11/21	TS	n/a	n/a	V2B8495

The QC reported here applies to the following samples:

Method: SW846 8260D

JD34909-1R, JD34909-23R, JD34909-32R, JD34909-40R, JD34909-41R, JD34909-42R, JD34909-43R

CAS No.	Compound	JD34909-32 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND	5000	5250	105	5000	5020	100	4	61-133/22

CAS No.	Surrogate Recoveries	MS	MSD	JD34909-32	Limits
1868-53-7	Dibromofluoromethane	103%	102%	103%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	95%	100%	80-121%
2037-26-5	Toluene-D8	99%	99%	103%	80-120%
460-00-4	4-Bromofluorobenzene	95%	94%	98%	80-120%

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

5.3.5
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8475-BFB	Injection Date: 10/29/21
Lab File ID: 2B186581.D	Injection Time: 15:44
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	25744	18.5	Pass
75	30.0 - 60.0% of mass 95	69010	49.5	Pass
95	Base peak, 100% relative abundance	139288	100.0	Pass
96	5.0 - 9.0% of mass 95	9395	6.75	Pass
173	Less than 2.0% of mass 174	1321	0.95 (1.03) ^a	Pass
174	50.0 - 120.0% of mass 95	128720	92.4	Pass
175	5.0 - 9.0% of mass 174	9993	7.17 (7.76) ^a	Pass
176	95.0 - 101.0% of mass 174	124810	89.6 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	8452	6.07 (6.77) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8475-IC8475	2B186582.D	10/29/21	16:13	00:29	Initial cal 0.2
V2B8475-IC8475	2B186583.D	10/29/21	16:43	00:59	Initial cal 0.5
V2B8475-IC8475	2B186584.D	10/29/21	17:12	01:28	Initial cal 1
V2B8475-IC8475	2B186585.D	10/29/21	17:42	01:58	Initial cal 2
V2B8475-IC8475	2B186586.D	10/29/21	18:11	02:27	Initial cal 4
V2B8475-IC8475	2B186587.D	10/29/21	18:40	02:56	Initial cal 8
V2B8475-IC8475	2B186588.D	10/29/21	19:10	03:26	Initial cal 20
V2B8475-ICC8475	2B186589.D	10/29/21	19:39	03:55	Initial cal 50
V2B8475-IC8475	2B186590.D	10/29/21	20:08	04:24	Initial cal 100
V2B8475-IC8475	2B186591.D	10/29/21	20:37	04:53	Initial cal 200
V2B8475-ICV8475	2B186594.D	10/29/21	22:05	06:21	Initial cal verification 50
V2B8475-ICV8475	2B186595.D	10/29/21	22:34	06:50	Initial cal verification 50
V2B8475-ICV8475	2B186596.D	10/29/21	23:04	07:20	Initial cal verification 50

5.4.1
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8491-BFB	Injection Date: 11/09/21
Lab File ID: 2B186945.D	Injection Time: 09:32
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	23728	17.6	Pass
75	30.0 - 60.0% of mass 95	64888	48.1	Pass
95	Base peak, 100% relative abundance	134861	100.0	Pass
96	5.0 - 9.0% of mass 95	8847	6.56	Pass
173	Less than 2.0% of mass 174	866	0.64 (0.66) ^a	Pass
174	50.0 - 120.0% of mass 95	130984	97.1	Pass
175	5.0 - 9.0% of mass 174	10236	7.59 (7.81) ^a	Pass
176	95.0 - 101.0% of mass 174	127301	94.4 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	8452	6.27 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8491-CC8475	2B186945.D	11/09/21	09:32	00:00	Continuing cal 20
V2B8491-BS	2B186947.D	11/09/21	10:36	01:04	Blank Spike
V2B8491-MB	2B186949.D	11/09/21	11:35	02:03	Method Blank
ZZZZZZ	2B186950.D	11/09/21	12:08	02:36	(unrelated sample)
ZZZZZZ	2B186951.D	11/09/21	12:41	03:09	(unrelated sample)
ZZZZZZ	2B186952.D	11/09/21	13:07	03:35	(unrelated sample)
ZZZZZZ	2B186953.D	11/09/21	13:36	04:04	(unrelated sample)
ZZZZZZ	2B186954.D	11/09/21	14:06	04:34	(unrelated sample)
FA90261-9	2B186955.D	11/09/21	14:35	05:03	(used for QC only; not part of job JD34909R)
ZZZZZZ	2B186956.D	11/09/21	15:04	05:32	(unrelated sample)
FA90261-9MS	2B186957.D	11/09/21	15:33	06:01	Matrix Spike
FA90261-9MSD	2B186958.D	11/09/21	16:03	06:31	Matrix Spike Duplicate
ZZZZZZ	2B186959.D	11/09/21	16:33	07:01	(unrelated sample)
ZZZZZZ	2B186960.D	11/09/21	17:02	07:30	(unrelated sample)
ZZZZZZ	2B186962.D	11/09/21	18:01	08:29	(unrelated sample)
ZZZZZZ	2B186965.D	11/09/21	19:29	09:57	(unrelated sample)
JD34909-3R	2B186965R.D	11/09/21	19:29	09:57	SW-1
ZZZZZZ	2B186966.D	11/09/21	19:58	10:26	(unrelated sample)
JD34909-4R	2B186966R.D	11/09/21	19:58	10:26	SW-5
ZZZZZZ	2B186967.D	11/09/21	20:27	10:55	(unrelated sample)
JD34909-5R	2B186967R.D	11/09/21	20:27	10:55	PZ-23
JD34909-21R	2B186968R.D	11/09/21	20:57	11:25	MW208
ZZZZZZ	2B186968.D	11/09/21	20:57	11:25	(unrelated sample)
JD34909-22R	2B186969R.D	11/09/21	21:26	11:54	MW34

5.4.2
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8491-BFB	Injection Date: 11/09/21
Lab File ID: 2B186945.D	Injection Time: 09:32
Instrument ID: GCMS2B	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2B186969.D	11/09/21	21:26	11:54	(unrelated sample)

5.4.2
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8492-BFB	Injection Date: 11/09/21
Lab File ID: 2B186972.D	Injection Time: 22:54
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	24701	17.6	Pass
75	30.0 - 60.0% of mass 95	67624	48.2	Pass
95	Base peak, 100% relative abundance	140211	100.0	Pass
96	5.0 - 9.0% of mass 95	8878	6.33	Pass
173	Less than 2.0% of mass 174	1450	1.03 (1.09) ^a	Pass
174	50.0 - 120.0% of mass 95	133424	95.2	Pass
175	5.0 - 9.0% of mass 174	10401	7.42 (7.80) ^a	Pass
176	95.0 - 101.0% of mass 174	131597	93.9 (98.6) ^a	Pass
177	5.0 - 9.0% of mass 176	8741	6.23 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8492-CC8475	2B186972.D	11/09/21	22:54	00:00	Continuing cal 50
V2B8492-BS	2B186974.D	11/09/21	23:52	00:58	Blank Spike
V2B8492-MB	2B186976.D	11/10/21	00:51	01:57	Method Blank
JD34909-7R	2B186977R.D	11/10/21	01:20	02:26	PZ-20
JD34909-7	2B186977.D	11/10/21	01:20	02:26	(used for QC only; not part of job JD34909R)
ZZZZZZ	2B186978.D	11/10/21	01:49	02:55	(unrelated sample)
JD34909-7MS	2B186979.D	11/10/21	02:18	03:24	Matrix Spike
JD34909-7MSD	2B186980.D	11/10/21	02:48	03:54	Matrix Spike Duplicate
ZZZZZZ	2B186982.D	11/10/21	03:46	04:52	(unrelated sample)
JD34909-8R	2B186982R.D	11/10/21	03:46	04:52	PZ-16
ZZZZZZ	2B186983.D	11/10/21	04:15	05:21	(unrelated sample)
JD34909-9R	2B186983R.D	11/10/21	04:15	05:21	TWP-25
ZZZZZZ	2B186984.D	11/10/21	04:44	05:50	(unrelated sample)
JD34909-10R	2B186984R.D	11/10/21	04:44	05:50	TWP-26
JD34909-11R	2B186985R.D	11/10/21	05:14	06:20	EW501
ZZZZZZ	2B186985.D	11/10/21	05:14	06:20	(unrelated sample)
ZZZZZZ	2B186986.D	11/10/21	05:43	06:49	(unrelated sample)
JD34909-12R	2B186986R.D	11/10/21	05:43	06:49	TWP23
ZZZZZZ	2B186987.D	11/10/21	06:12	07:18	(unrelated sample)
JD34909-13R	2B186987R.D	11/10/21	06:12	07:18	EW601D
ZZZZZZ	2B186988.D	11/10/21	06:41	07:47	(unrelated sample)
JD34909-14R	2B186988R.D	11/10/21	06:41	07:47	PZ-17
ZZZZZZ	2B186989.D	11/10/21	07:10	08:16	(unrelated sample)
JD34909-15R	2B186989R.D	11/10/21	07:10	08:16	MW36D

5.4.3
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample:	V2B8492-BFB	Injection Date:	11/09/21
Lab File ID:	2B186972.D	Injection Time:	22:54
Instrument ID:	GCMS2B		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD34909-16R	2B186990R.D	11/10/21	07:39	08:45	MW36D DUPLICATE
ZZZZZZ	2B186990.D	11/10/21	07:39	08:45	(unrelated sample)
JD34909-17R	2B186991R.D	11/10/21	08:08	09:14	MW35
ZZZZZZ	2B186991.D	11/10/21	08:08	09:14	(unrelated sample)
JD34909-18R	2B186992R.D	11/10/21	08:38	09:44	MW35D
ZZZZZZ	2B186992.D	11/10/21	08:38	09:44	(unrelated sample)

5.4.3
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8493-BFB	Injection Date: 11/10/21
Lab File ID: 2B186997.D	Injection Time: 10:06
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	23251	17.2	Pass
75	30.0 - 60.0% of mass 95	64787	48.0	Pass
95	Base peak, 100% relative abundance	134920	100.0	Pass
96	5.0 - 9.0% of mass 95	8836	6.55	Pass
173	Less than 2.0% of mass 174	1387	1.03 (1.08) ^a	Pass
174	50.0 - 120.0% of mass 95	127936	94.8	Pass
175	5.0 - 9.0% of mass 174	9793	7.26 (7.65) ^a	Pass
176	95.0 - 101.0% of mass 174	125864	93.3 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	7981	5.92 (6.34) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8493-CC8475	2B186997.D	11/10/21	10:06	00:00	Continuing cal 20
V2B8493-BS	2B187001.D	11/10/21	12:06	02:00	Blank Spike
V2B8493-MB	2B187003.D	11/10/21	13:04	02:58	Method Blank
ZZZZZZ	2B187004.D	11/10/21	13:33	03:27	(unrelated sample)
JD34909-6	2B187005.D	11/10/21	14:03	03:57	(used for QC only; not part of job JD34909R)
JD34909-6R	2B187005R.D	11/10/21	14:03	03:57	RX-03
ZZZZZZ	2B187006.D	11/10/21	14:32	04:26	(unrelated sample)
JD34909-2R	2B187007R.D	11/10/21	15:02	04:56	PZ-21
ZZZZZZ	2B187007.D	11/10/21	15:02	04:56	(unrelated sample)
ZZZZZZ	2B187008.D	11/10/21	15:30	05:24	(unrelated sample)
ZZZZZZ	2B187009.D	11/10/21	15:59	05:53	(unrelated sample)
JD34909-6MS	2B187010.D	11/10/21	16:28	06:22	Matrix Spike
JD34909-6MSD	2B187011.D	11/10/21	16:57	06:51	Matrix Spike Duplicate
ZZZZZZ	2B187012.D	11/10/21	17:26	07:20	(unrelated sample)
ZZZZZZ	2B187013.D	11/10/21	17:56	07:50	(unrelated sample)
JD34909-19R	2B187013R.D	11/10/21	17:56	07:50	MW401B
ZZZZZZ	2B187014.D	11/10/21	18:25	08:19	(unrelated sample)
JD34909-20R	2B187014R.D	11/10/21	18:25	08:19	PZ-10
JD34909-24R	2B187015R.D	11/10/21	18:54	08:48	RX-19
ZZZZZZ	2B187015.D	11/10/21	18:54	08:48	(unrelated sample)
JD34909-25R	2B187016R.D	11/10/21	19:24	09:18	PZ-18
ZZZZZZ	2B187016.D	11/10/21	19:24	09:18	(unrelated sample)
ZZZZZZ	2B187017.D	11/10/21	19:53	09:47	(unrelated sample)
JD34909-26R	2B187017R.D	11/10/21	19:53	09:47	MW109

5.4.4
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8493-BFB	Injection Date: 11/10/21
Lab File ID: 2B186997.D	Injection Time: 10:06
Instrument ID: GCMS2B	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2B187018.D	11/10/21	20:22	10:16	(unrelated sample)
JD34909-27R	2B187018R.D	11/10/21	20:22	10:16	RX28
ZZZZZZ	2B187019.D	11/10/21	20:52	10:46	(unrelated sample)
JD34909-28R	2B187019R.D	11/10/21	20:52	10:46	RX01
JD34909-29R	2B187020R.D	11/10/21	21:21	11:15	MW408A
ZZZZZZ	2B187020.D	11/10/21	21:21	11:15	(unrelated sample)
JD34909-30R	2B187021R.D	11/10/21	21:51	11:45	PZNNBSW-14A
ZZZZZZ	2B187021.D	11/10/21	21:51	11:45	(unrelated sample)

5.4.4
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8494-BFB	Injection Date: 11/10/21
Lab File ID: 2B187023.D	Injection Time: 22:49
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	22963	17.8	Pass
75	30.0 - 60.0% of mass 95	62931	48.7	Pass
95	Base peak, 100% relative abundance	129347	100.0	Pass
96	5.0 - 9.0% of mass 95	8372	6.47	Pass
173	Less than 2.0% of mass 174	1361	1.05 (1.09) ^a	Pass
174	50.0 - 120.0% of mass 95	124517	96.3	Pass
175	5.0 - 9.0% of mass 174	9202	7.11 (7.39) ^a	Pass
176	95.0 - 101.0% of mass 174	121888	94.2 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	8000	6.18 (6.56) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8494-CC8475	2B187023.D	11/10/21	22:49	00:00	Continuing cal 50
V2B8494-BS	2B187025.D	11/10/21	23:47	00:58	Blank Spike
V2B8494-MB	2B187027.D	11/11/21	00:45	01:56	Method Blank
JD34909-31R	2B187028R.D	11/11/21	01:14	02:25	MW106
JD34909-31	2B187028.D	11/11/21	01:14	02:25	(used for QC only; not part of job JD34909R)
ZZZZZZ	2B187030.D	11/11/21	02:12	03:23	(unrelated sample)
JD34909-39R	2B187030R.D	11/11/21	02:12	03:23	MW101
JD34909-31MS	2B187031.D	11/11/21	02:41	03:52	Matrix Spike
JD34909-31MSD	2B187032.D	11/11/21	03:10	04:21	Matrix Spike Duplicate
ZZZZZZ	2B187033.D	11/11/21	03:39	04:50	(unrelated sample)
ZZZZZZ	2B187034.D	11/11/21	04:08	05:19	(unrelated sample)
ZZZZZZ	2B187035.D	11/11/21	04:37	05:48	(unrelated sample)
JD34909-33R	2B187035R.D	11/11/21	04:37	05:48	EW403
JD34909-34R	2B187036R.D	11/11/21	05:06	06:17	SW-7
ZZZZZZ	2B187036.D	11/11/21	05:06	06:17	(unrelated sample)
ZZZZZZ	2B187037.D	11/11/21	05:35	06:46	(unrelated sample)
JD34909-35R	2B187037R.D	11/11/21	05:35	06:46	MW 111
ZZZZZZ	2B187038.D	11/11/21	06:04	07:15	(unrelated sample)
JD34909-36R	2B187038R.D	11/11/21	06:04	07:15	PZNNB 11A
JD34909-37R	2B187039R.D	11/11/21	06:33	07:44	RX-13
ZZZZZZ	2B187039.D	11/11/21	06:33	07:44	(unrelated sample)
JD34909-38R	2B187043R.D	11/11/21	08:29	09:40	RX-7
ZZZZZZ	2B187043.D	11/11/21	08:29	09:40	(unrelated sample)

5.4.5
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8495-BFB	Injection Date: 11/11/21
Lab File ID: 2B187046.D	Injection Time: 09:57
Instrument ID: GCMS2B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	22616	17.4	Pass
75	30.0 - 60.0% of mass 95	62733	48.3	Pass
95	Base peak, 100% relative abundance	129923	100.0	Pass
96	5.0 - 9.0% of mass 95	8671	6.67	Pass
173	Less than 2.0% of mass 174	1405	1.08 (1.12) ^a	Pass
174	50.0 - 120.0% of mass 95	124984	96.2	Pass
175	5.0 - 9.0% of mass 174	9431	7.26 (7.55) ^a	Pass
176	95.0 - 101.0% of mass 174	121712	93.7 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	8321	6.40 (6.84) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2B8495-CC8475	2B187046.D	11/11/21	09:57	00:00	Continuing cal 20
V2B8495-BS	2B187048.D	11/11/21	11:11	01:14	Blank Spike
V2B8495-MB	2B187051.D	11/11/21	13:03	03:06	Method Blank
JD34909-1R	2B187052R.D	11/11/21	13:32	03:35	MW204
ZZZZZZ	2B187052.D	11/11/21	13:32	03:35	(unrelated sample)
JD34909-32R	2B187053R.D	11/11/21	14:01	04:04	MW33
JD34909-32	2B187053.D	11/11/21	14:01	04:04	(used for QC only; not part of job JD34909R)
ZZZZZZ	2B187054.D	11/11/21	14:30	04:33	(unrelated sample)
JD34909-40R	2B187055R.D	11/11/21	14:59	05:02	RX20
ZZZZZZ	2B187055.D	11/11/21	14:59	05:02	(unrelated sample)
ZZZZZZ	2B187057.D	11/11/21	15:57	06:00	(unrelated sample)
JD34909-32MS	2B187058.D	11/11/21	16:27	06:30	Matrix Spike
JD34909-32MSD	2B187059.D	11/11/21	16:56	06:59	Matrix Spike Duplicate
ZZZZZZ	2B187060.D	11/11/21	17:26	07:29	(unrelated sample)
ZZZZZZ	2B187061.D	11/11/21	17:55	07:58	(unrelated sample)
ZZZZZZ	2B187062.D	11/11/21	18:24	08:27	(unrelated sample)
ZZZZZZ	2B187063.D	11/11/21	18:54	08:57	(unrelated sample)
JD34909-23R	2B187064R.D	11/11/21	19:23	09:26	MW34D
ZZZZZZ	2B187064.D	11/11/21	19:23	09:26	(unrelated sample)
JD34909-41R	2B187065R.D	11/11/21	19:52	09:55	RX-12
ZZZZZZ	2B187065.D	11/11/21	19:52	09:55	(unrelated sample)
JD34909-42R	2B187066R.D	11/11/21	20:22	10:25	RX-12 DUP
ZZZZZZ	2B187066.D	11/11/21	20:22	10:25	(unrelated sample)
JD34909-43R	2B187067R.D	11/11/21	20:51	10:54	TRIP BLANK

5.4.6
5

Instrument Performance Check (BFB)

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Sample: V2B8495-BFB	Injection Date: 11/11/21
Lab File ID: 2B187046.D	Injection Time: 09:57
Instrument ID: GCMS2B	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2B187067.D	11/11/21	20:51	10:54	(unrelated sample)
ZZZZZZ	2B187068.D	11/11/21	21:20	11:23	(unrelated sample)
ZZZZZZ	2B187069.D	11/11/21	21:50	11:53	(unrelated sample)

5.4.6
5

Surrogate Recovery Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD34909-1R	2B187052R.D	103	100	101	97
JD34909-2R	2B187007R.D	104	100	102	97
JD34909-3R	2B186965R.D	99	96	100	100
JD34909-4R	2B186966R.D	100	95	100	97
JD34909-5R	2B186967R.D	101	96	101	99
JD34909-6R	2B187005R.D	104	97	102	98
JD34909-7R	2B186977R.D	103	97	103	98
JD34909-8R	2B186982R.D	101	99	102	99
JD34909-9R	2B186983R.D	103	96	101	101
JD34909-10R	2B186984R.D	104	100	101	98
JD34909-11R	2B186985R.D	105	97	103	99
JD34909-12R	2B186986R.D	105	98	102	100
JD34909-13R	2B186987R.D	104	101	101	99
JD34909-14R	2B186988R.D	104	100	102	98
JD34909-15R	2B186989R.D	106	100	100	99
JD34909-16R	2B186990R.D	105	100	102	99
JD34909-17R	2B186991R.D	102	101	101	98
JD34909-18R	2B186992R.D	103	99	101	98
JD34909-19R	2B187013R.D	104	99	102	100
JD34909-20R	2B187014R.D	105	100	102	96
JD34909-21R	2B186968R.D	102	98	100	97
JD34909-22R	2B186969R.D	102	99	101	98
JD34909-23R	2B187064R.D	106	100	102	99
JD34909-24R	2B187015R.D	104	98	103	97
JD34909-25R	2B187016R.D	102	99	102	97
JD34909-26R	2B187017R.D	103	97	103	100
JD34909-27R	2B187018R.D	104	99	104	98
JD34909-28R	2B187019R.D	102	99	103	97
JD34909-29R	2B187020R.D	105	100	103	99
JD34909-30R	2B187021R.D	106	99	102	98
JD34909-31R	2B187028R.D	104	95	101	93
JD34909-32R	2B187053R.D	103	100	103	98
JD34909-33R	2B187035R.D	104	99	101	94
JD34909-34R	2B187036R.D	104	102	102	100
JD34909-35R	2B187037R.D	105	99	104	100
JD34909-36R	2B187038R.D	106	102	101	101
JD34909-37R	2B187039R.D	102	94	104	93
JD34909-38R	2B187043R.D	104	101	103	100
JD34909-39R	2B187030R.D	104	100	101	99
JD34909-40R	2B187055R.D	104	101	104	98

5.5.1
5

Surrogate Recovery Summary

Job Number: JD34909R
Account: GESMAW Groundwater & Environmental Services
Project: BASF, 55 Crowley Road, Lewiston, ME

Method: SW846 8260D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD34909-41R	2B187065R.D	106	101	103	99
JD34909-42R	2B187066R.D	107	100	102	99
JD34909-43R	2B187067R.D	106	101	100	98
FA90261-9MS	2B186957.D	100	93	97	94
FA90261-9MSD	2B186958.D	100	92	98	95
JD34909-31MS	2B187031.D	102	94	98	94
JD34909-31MSD	2B187032.D	102	94	98	95
JD34909-32MS	2B187058.D	103	95	99	95
JD34909-32MSD	2B187059.D	102	95	99	94
JD34909-6MS	2B187010.D	101	94	99	96
JD34909-6MSD	2B187011.D	101	93	99	96
JD34909-7MS	2B186979.D	101	94	97	95
JD34909-7MSD	2B186980.D	100	93	99	96
V2B8491-BS	2B186947.D	102	95	99	95
V2B8491-MB	2B186949.D	102	100	99	98
V2B8492-BS	2B186974.D	100	92	97	95
V2B8492-MB	2B186976.D	102	98	100	98
V2B8493-BS	2B187001.D	101	93	99	95
V2B8493-MB	2B187003.D	103	100	102	99
V2B8494-BS	2B187025.D	101	96	98	94
V2B8494-MB	2B187027.D	104	102	102	98
V2B8495-BS	2B187048.D	103	95	99	94
V2B8495-MB	2B187051.D	106	104	101	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

5.5.1
5



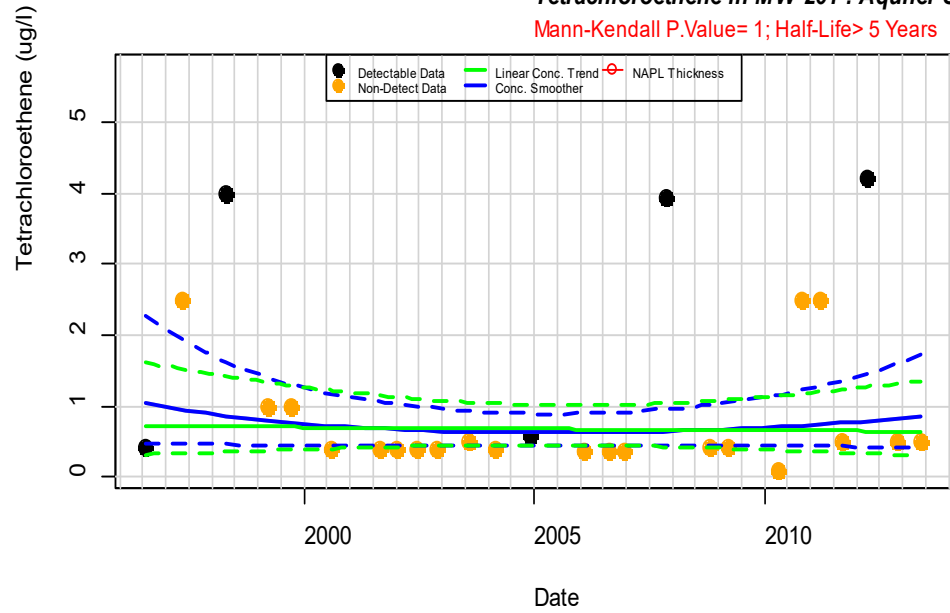
Appendix C – Shallow Water-Bearing Zone Concentration Trend Graphs for PCE, TCE, cis-1,2- DCE, Vinyl Chloride, 1,1,1-TCA, Total BTEX, and 1,4- Dioxane (1995 - 2021)

Tetrachloroethene

250 ug/L Threshold

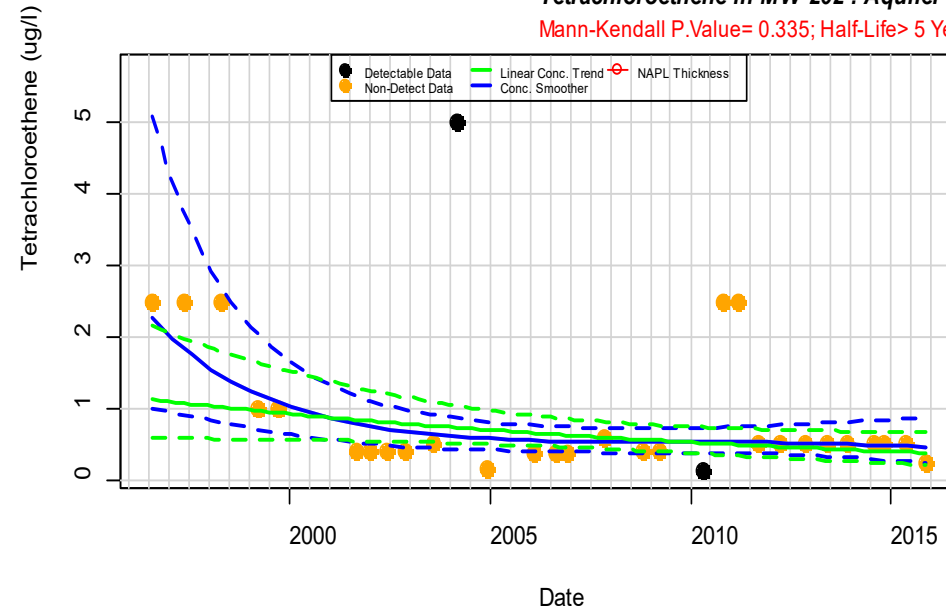
Tetrachloroethene in MW-201 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

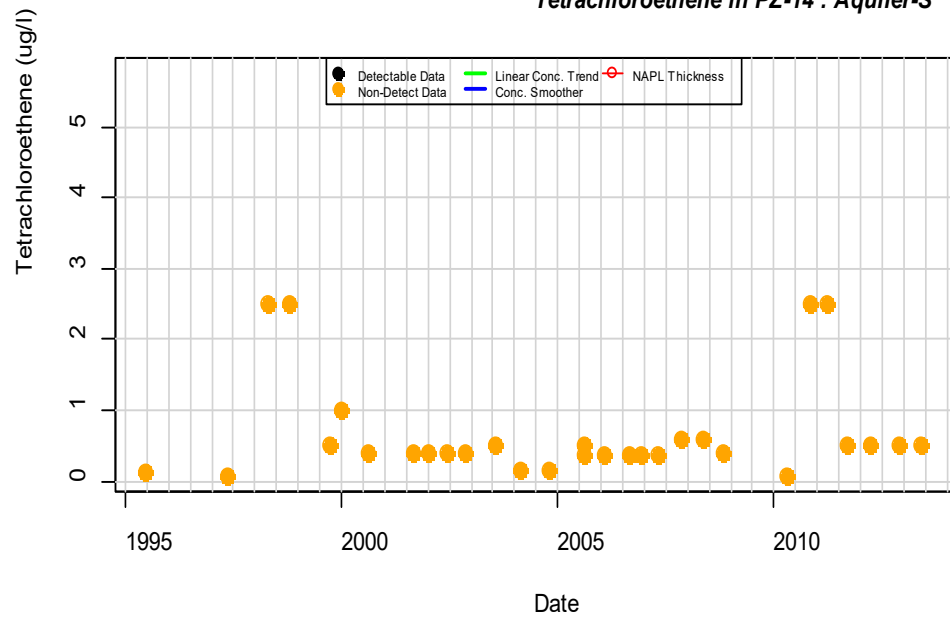


Tetrachloroethene in MW-202 : Aquifer-S

Mann-Kendall P.Value= 0.335; Half-Life> 5 Years

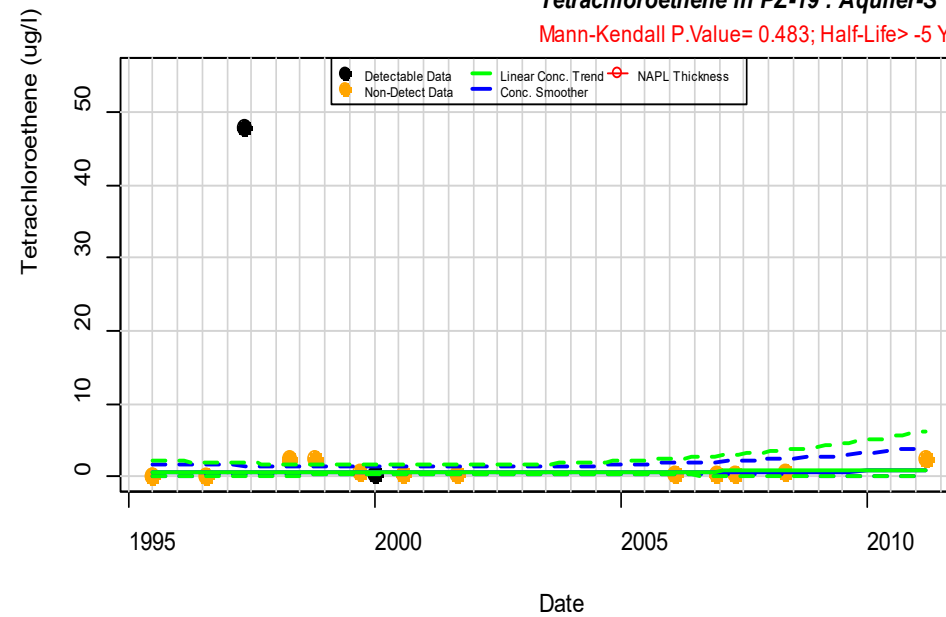


Tetrachloroethene in PZ-14 : Aquifer-S



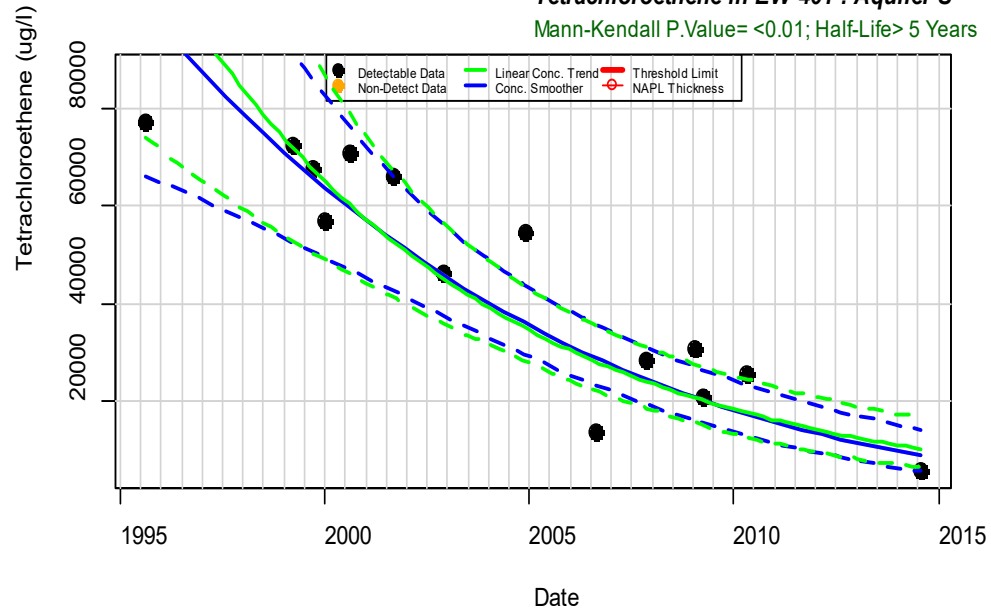
Tetrachloroethene in PZ-19 : Aquifer-S

Mann-Kendall P.Value= 0.483; Half-Life> -5 Years



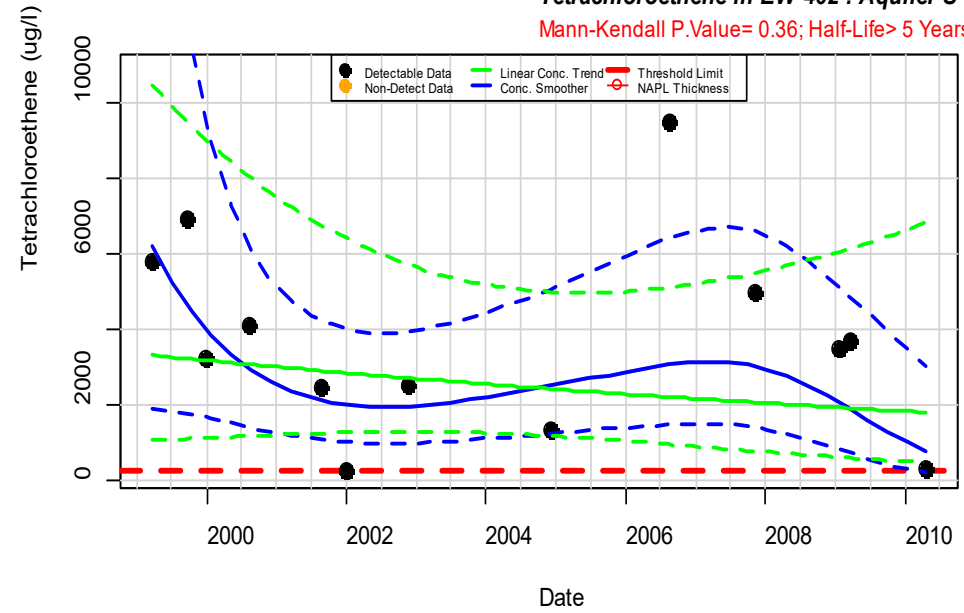
Tetrachloroethene in EW-401 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> 5 Years



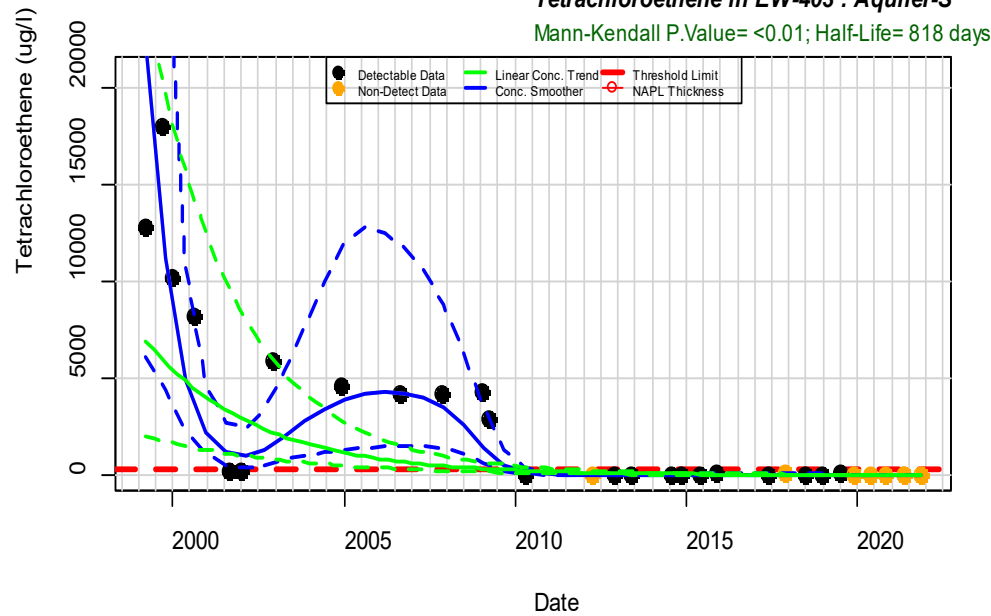
Tetrachloroethene in EW-402 : Aquifer-S

Mann-Kendall P.Value= 0.36; Half-Life> 5 Years



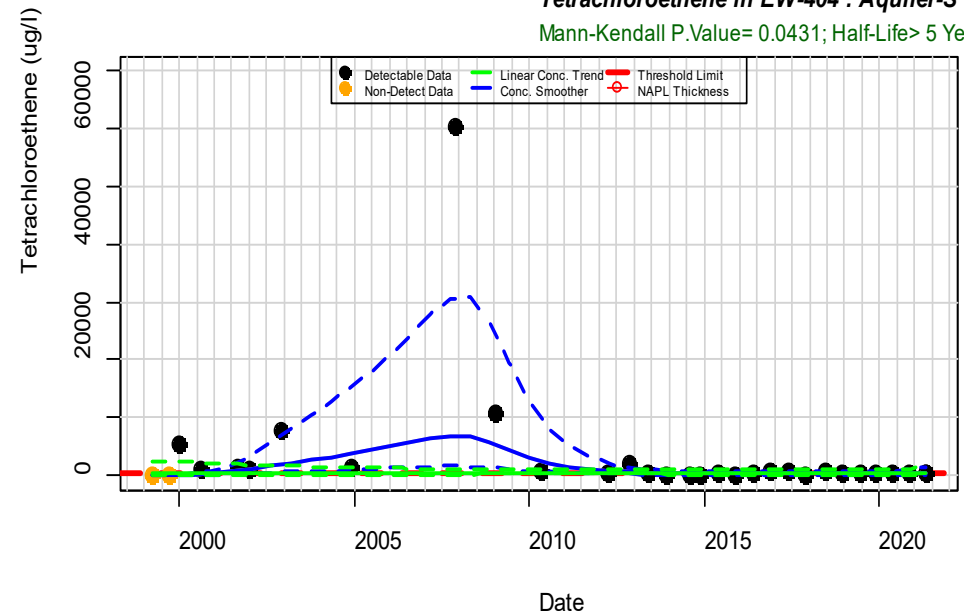
Tetrachloroethene in EW-403 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 818 days



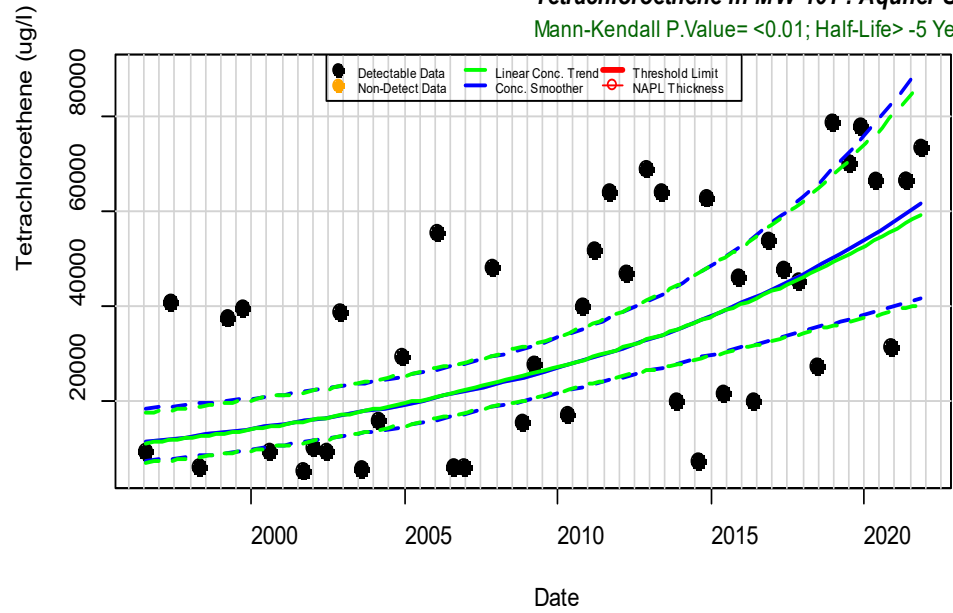
Tetrachloroethene in EW-404 : Aquifer-S

Mann-Kendall P.Value= 0.0431; Half-Life> 5 Years



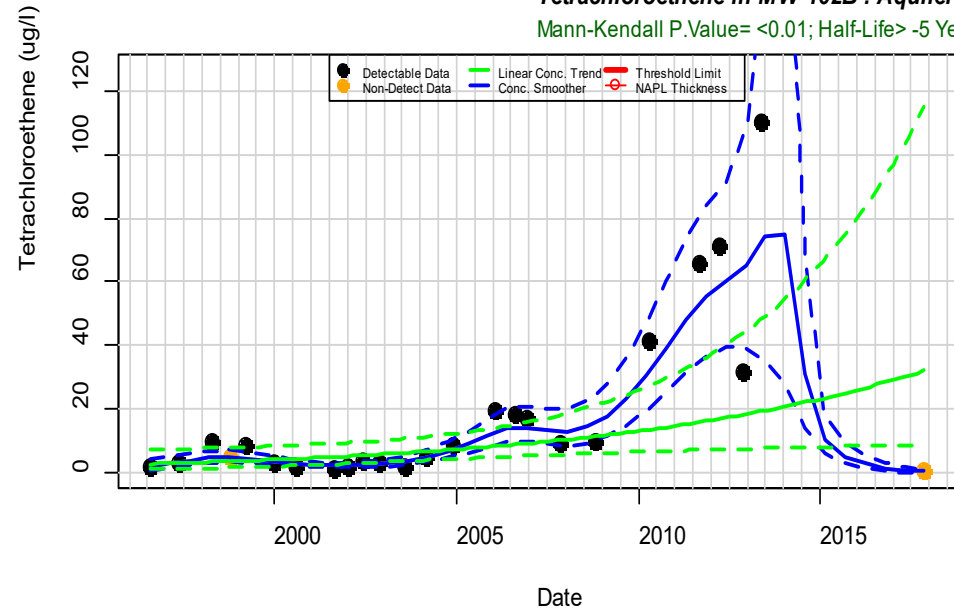
Tetrachloroethene in MW-101 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> -5 Years



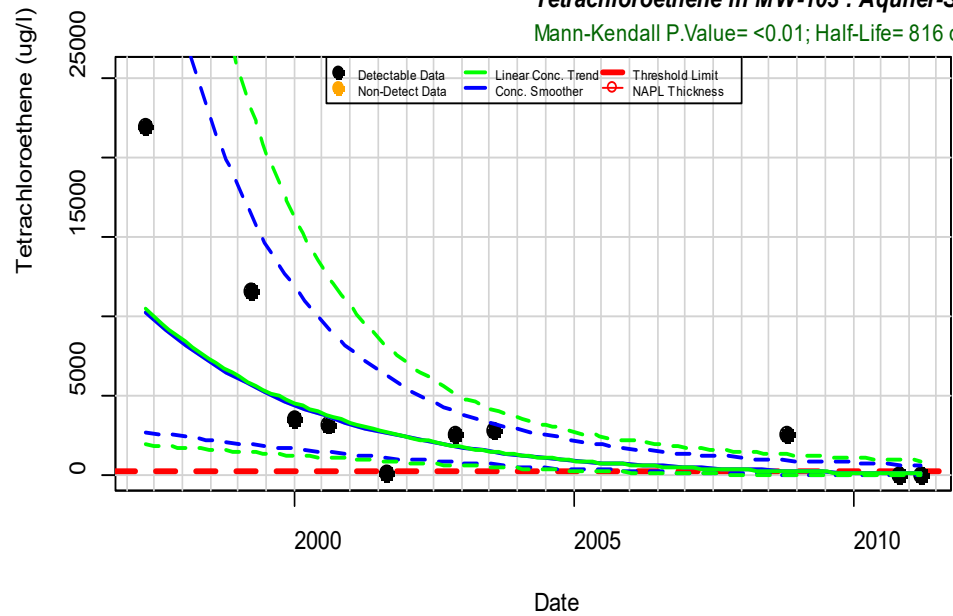
Tetrachloroethene in MW-102B : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> -5 Years



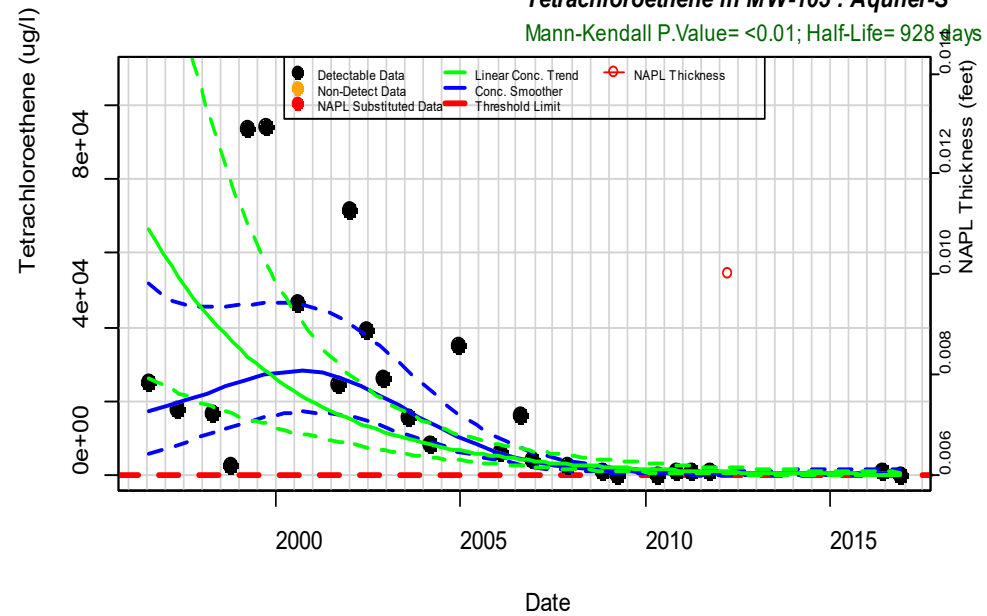
Tetrachloroethene in MW-103 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 816 days



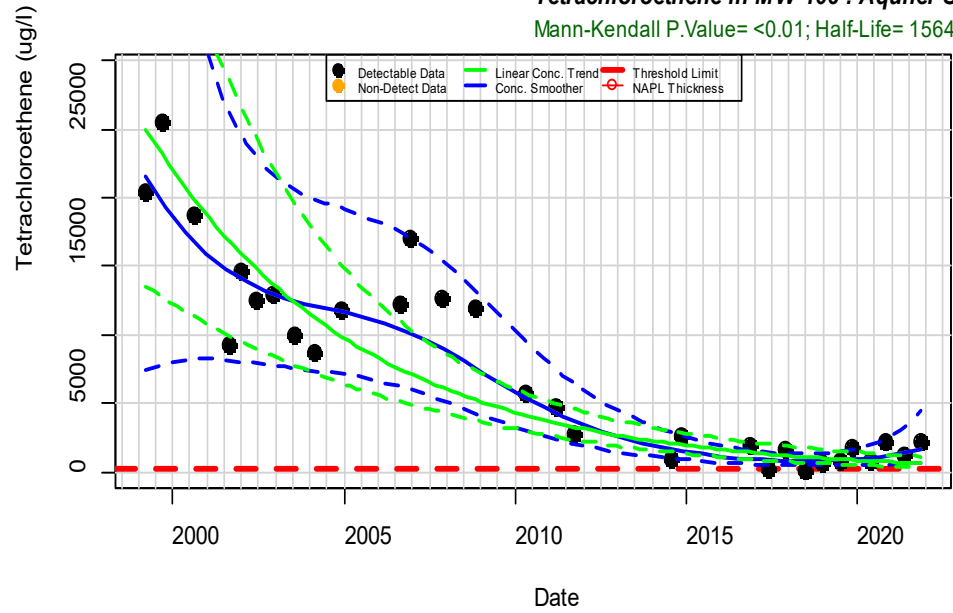
Tetrachloroethene in MW-105 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 928 days



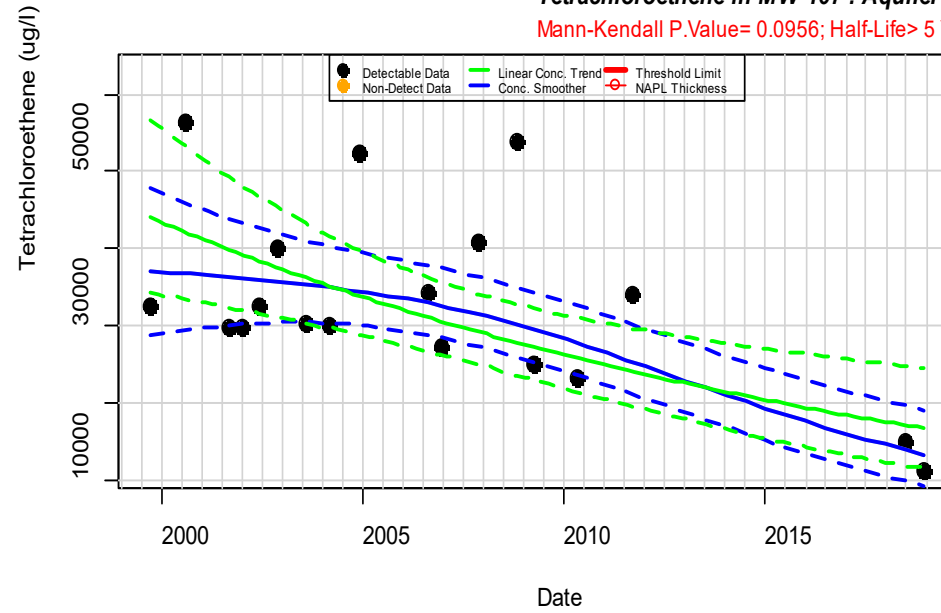
Tetrachloroethene in MW-106 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 1564 days



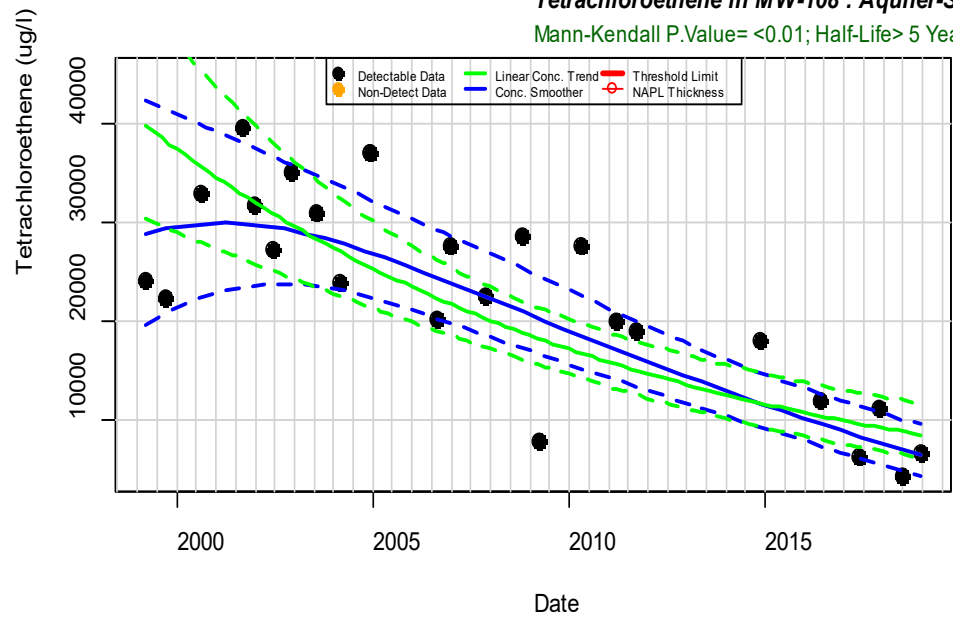
Tetrachloroethene in MW-107 : Aquifer-S

Mann-Kendall P.Value= 0.0956; Half-Life> 5 Years



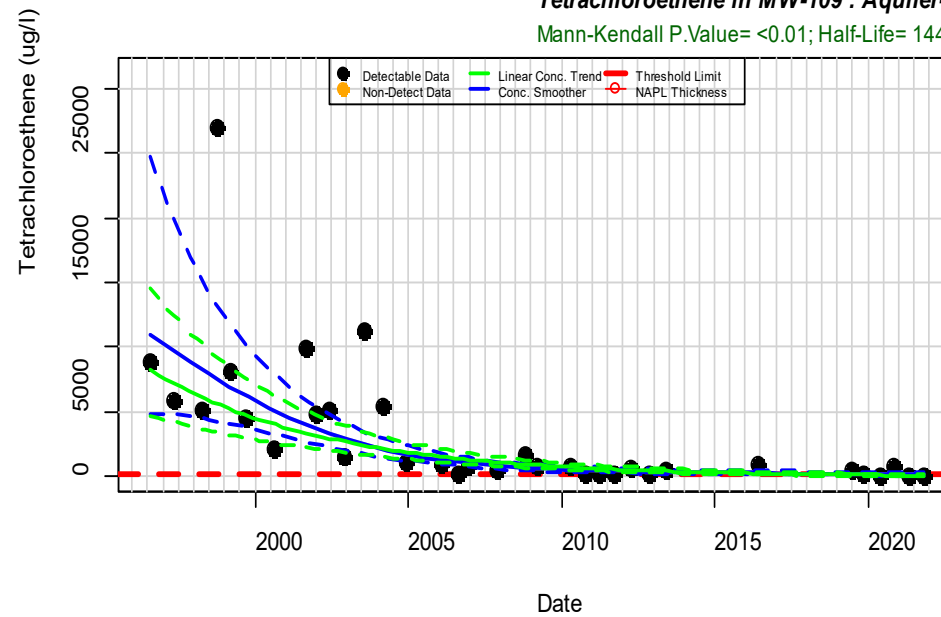
Tetrachloroethene in MW-108 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> 5 Years



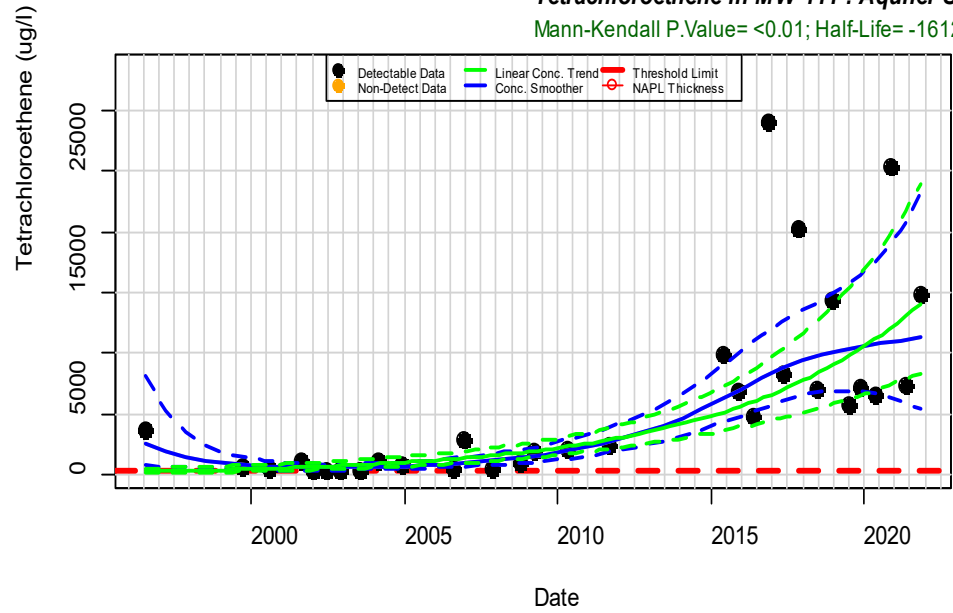
Tetrachloroethene in MW-109 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 1444 days



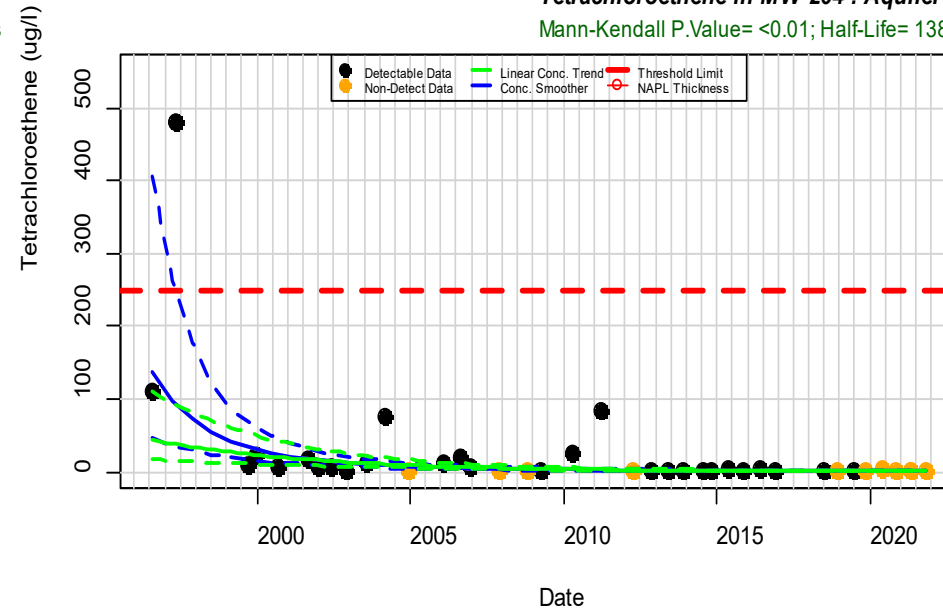
Tetrachloroethene in MW-111 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= -1612 days



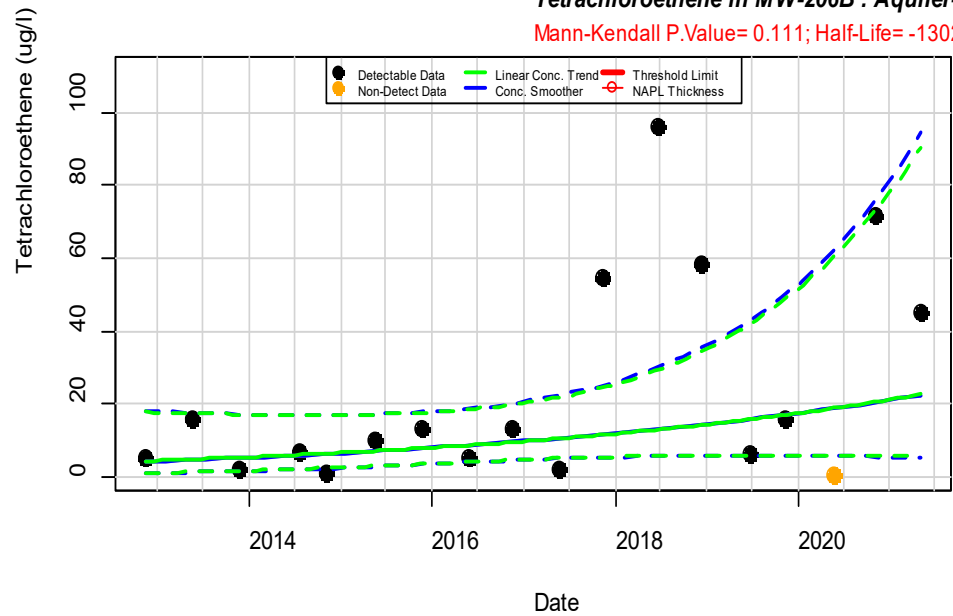
Tetrachloroethene in MW-204 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 1384 days

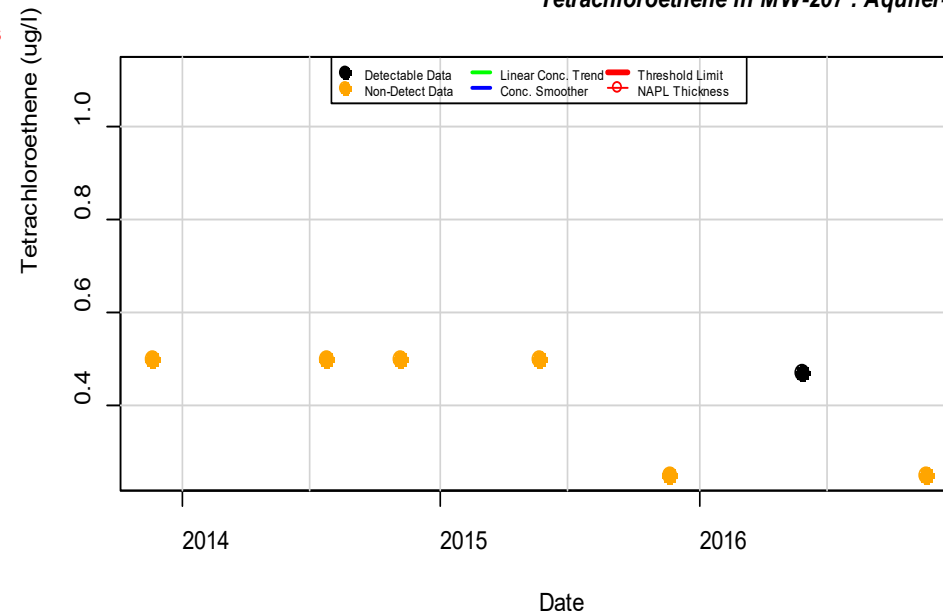


Tetrachloroethene in MW-206B : Aquifer-S

Mann-Kendall P.Value= 0.111; Half-Life= -1302 days

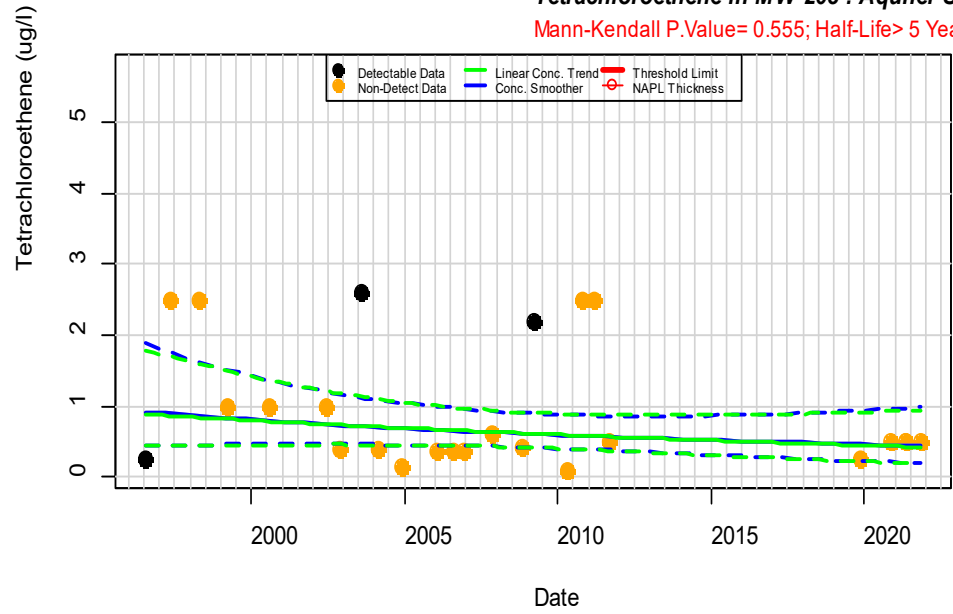


Tetrachloroethene in MW-207 : Aquifer-S

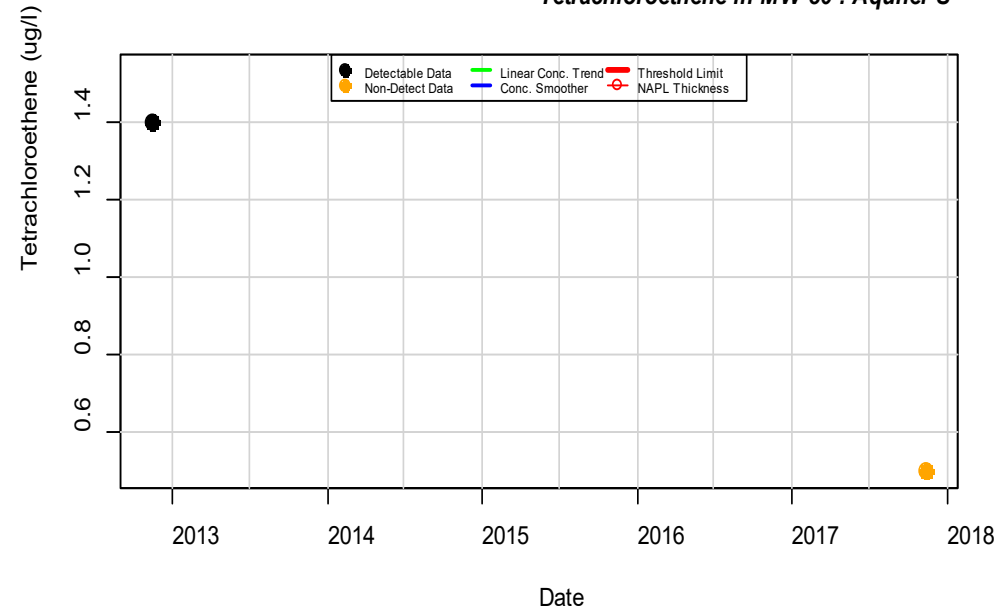


Tetrachloroethene in MW-208 : Aquifer-S

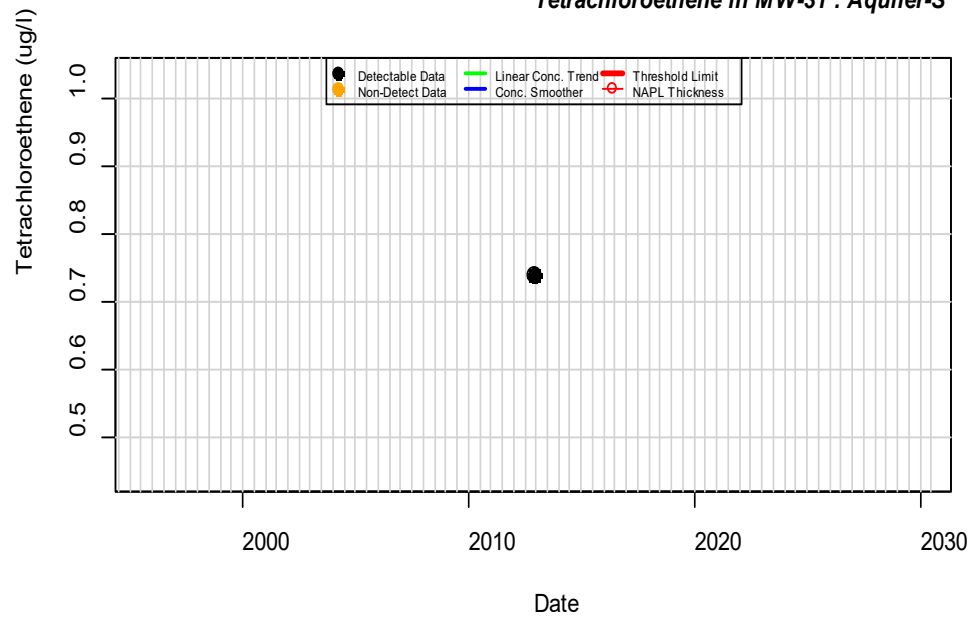
Mann-Kendall P.Value= 0.555; Half-Life> 5 Years



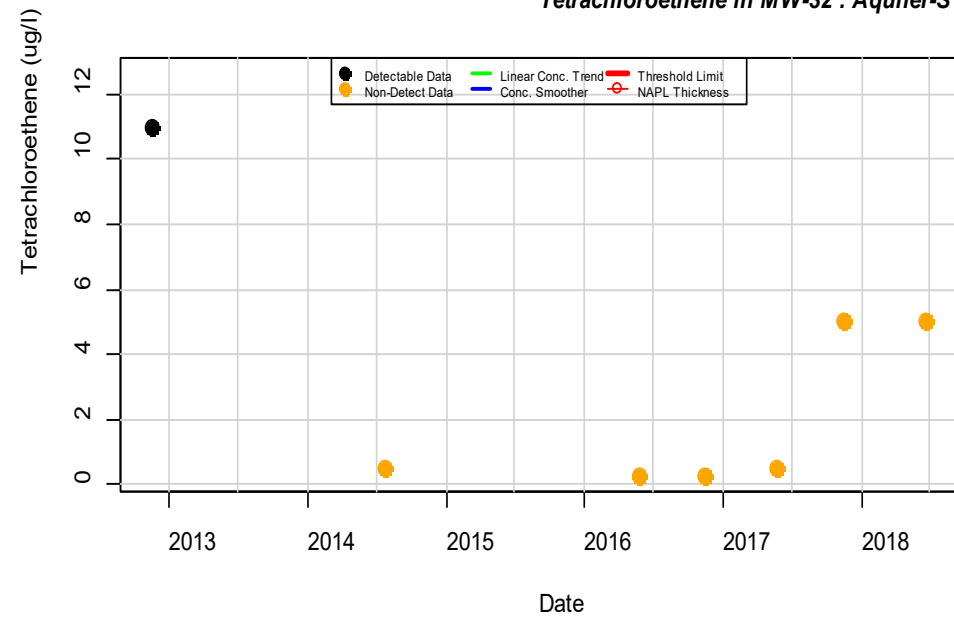
Tetrachloroethene in MW-30 : Aquifer-S



Tetrachloroethene in MW-31 : Aquifer-S

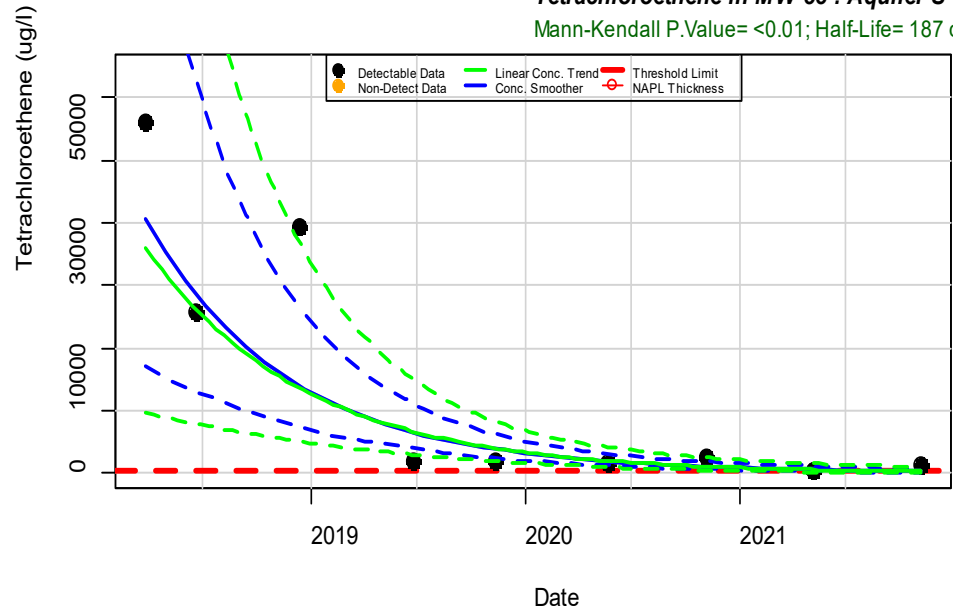


Tetrachloroethene in MW-32 : Aquifer-S

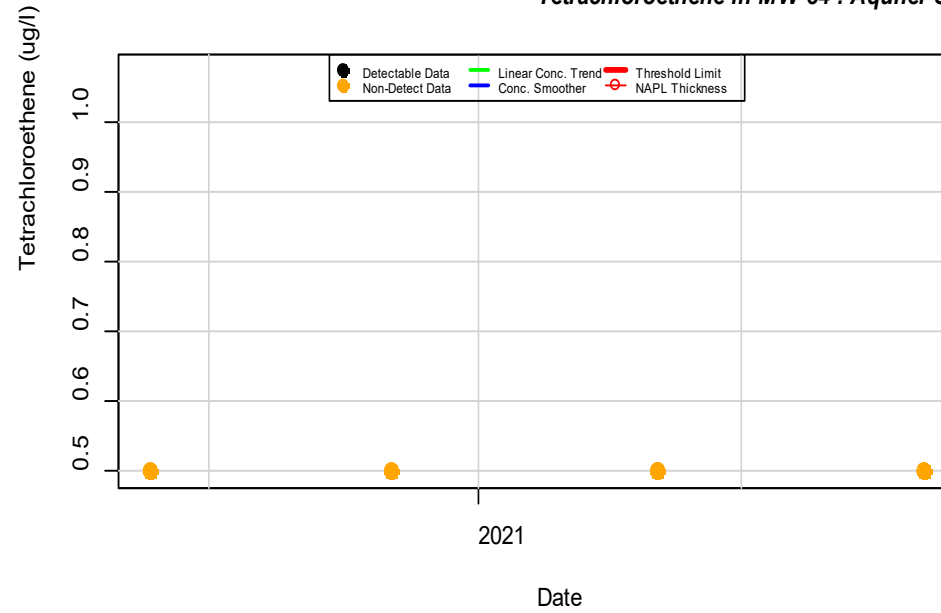


Tetrachloroethene in MW-33 : Aquifer-S

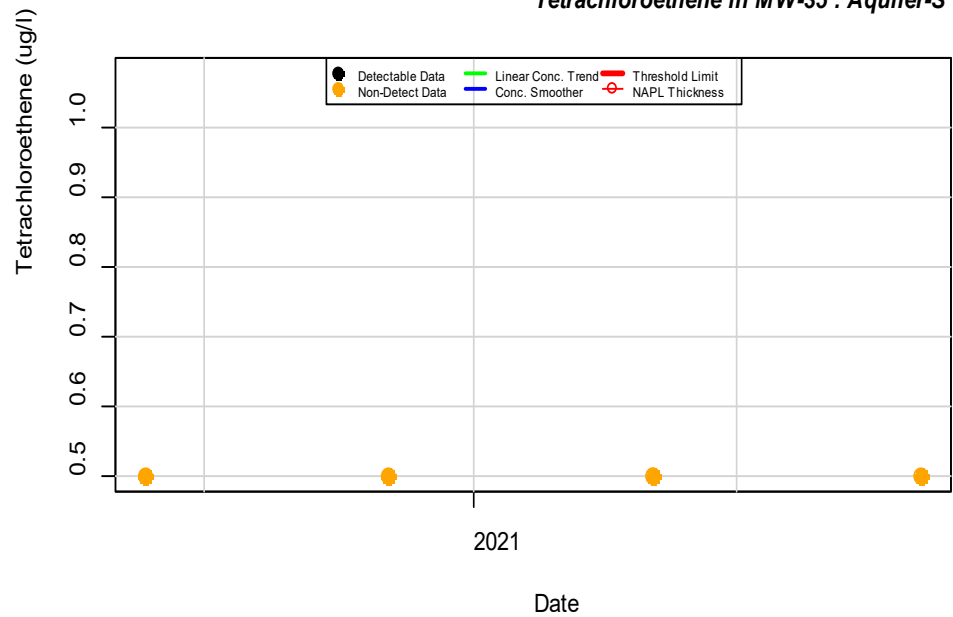
Mann-Kendall P.Value= <0.01; Half-Life= 187 days



Tetrachloroethene in MW-34 : Aquifer-S

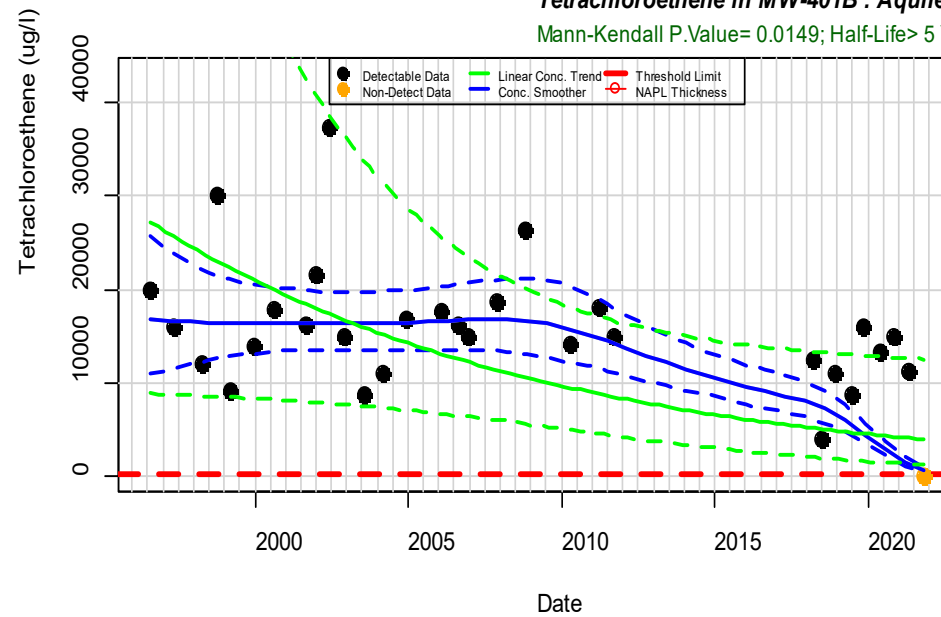


Tetrachloroethene in MW-35 : Aquifer-S



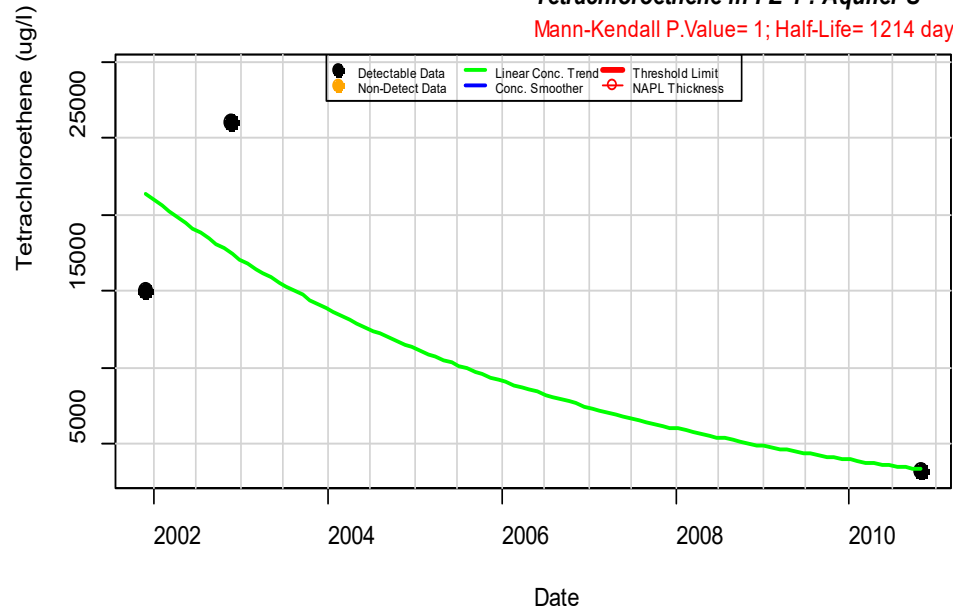
Tetrachloroethene in MW-401B : Aquifer-S

Mann-Kendall P.Value= 0.0149; Half-Life> 5 Years



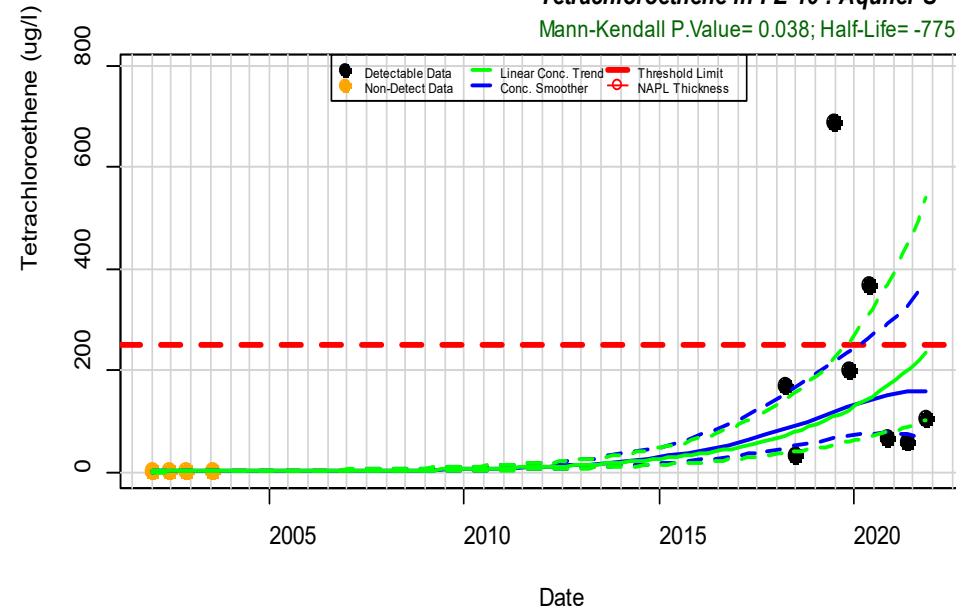
Tetrachloroethene in PZ-1 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life= 1214 days

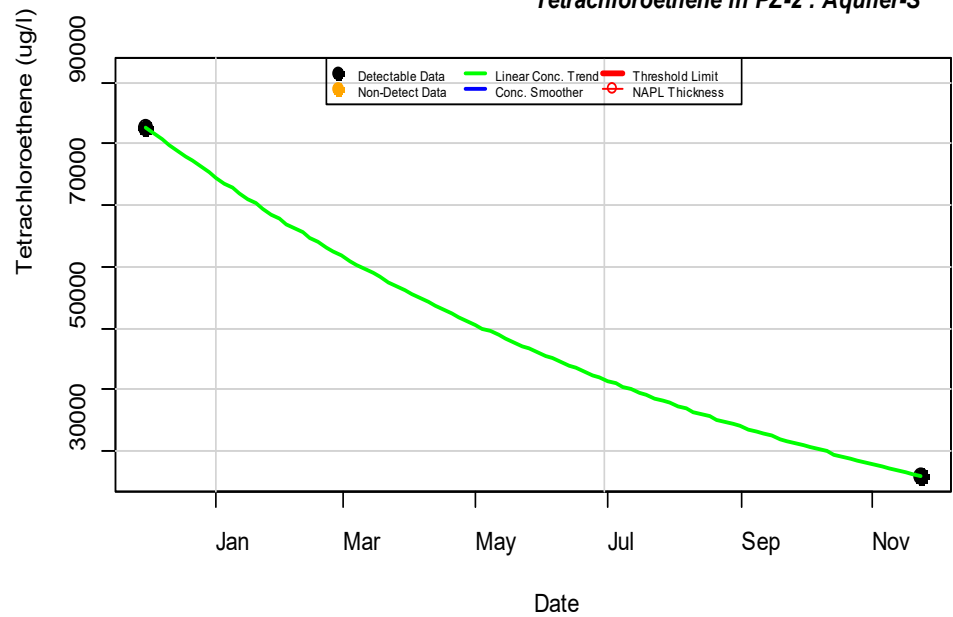


Tetrachloroethene in PZ-10 : Aquifer-S

Mann-Kendall P.Value= 0.038; Half-Life= -775 days

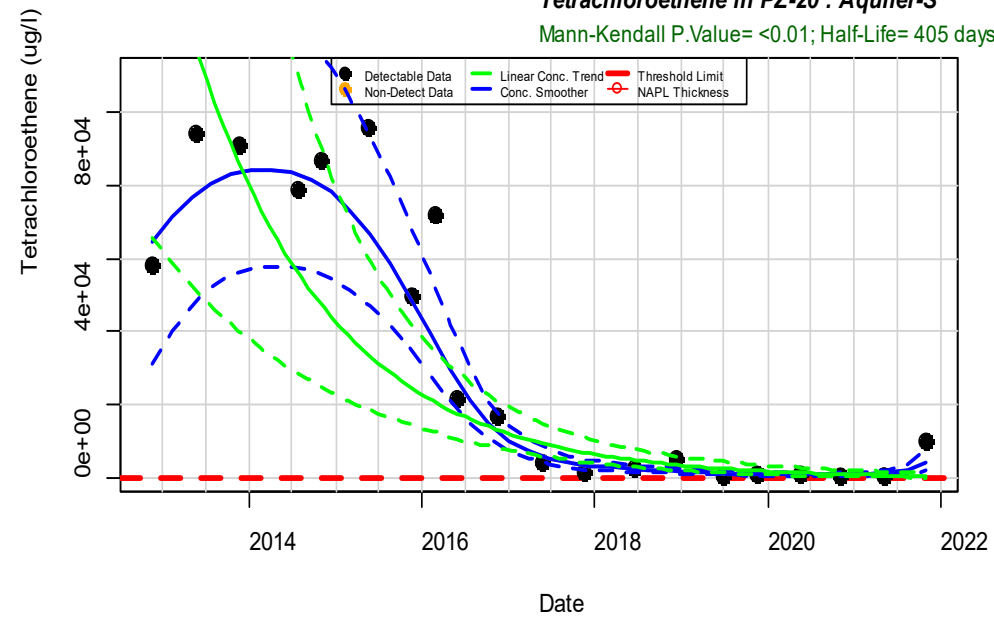


Tetrachloroethene in PZ-2 : Aquifer-S



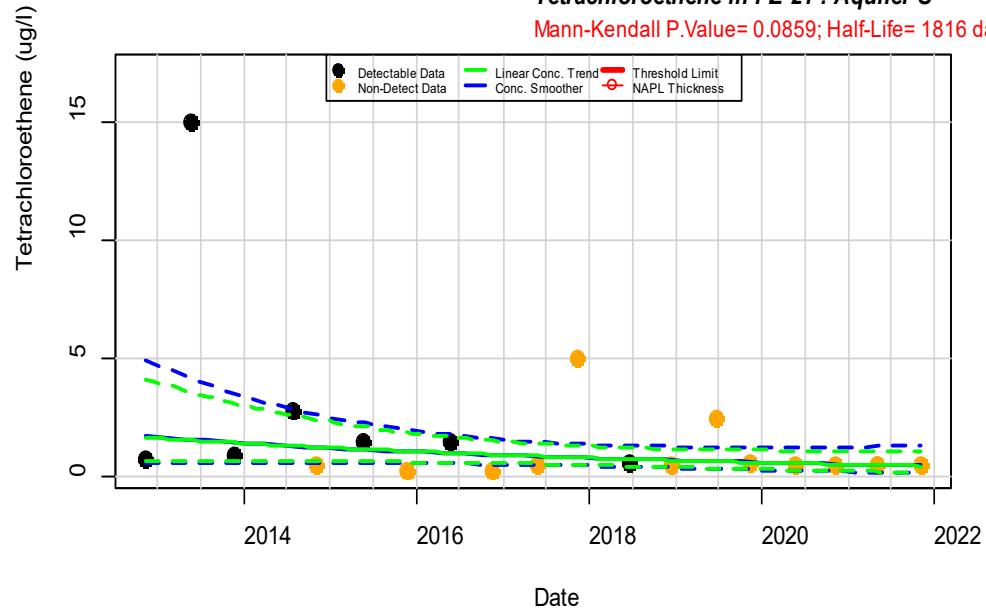
Tetrachloroethene in PZ-20 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 405 days



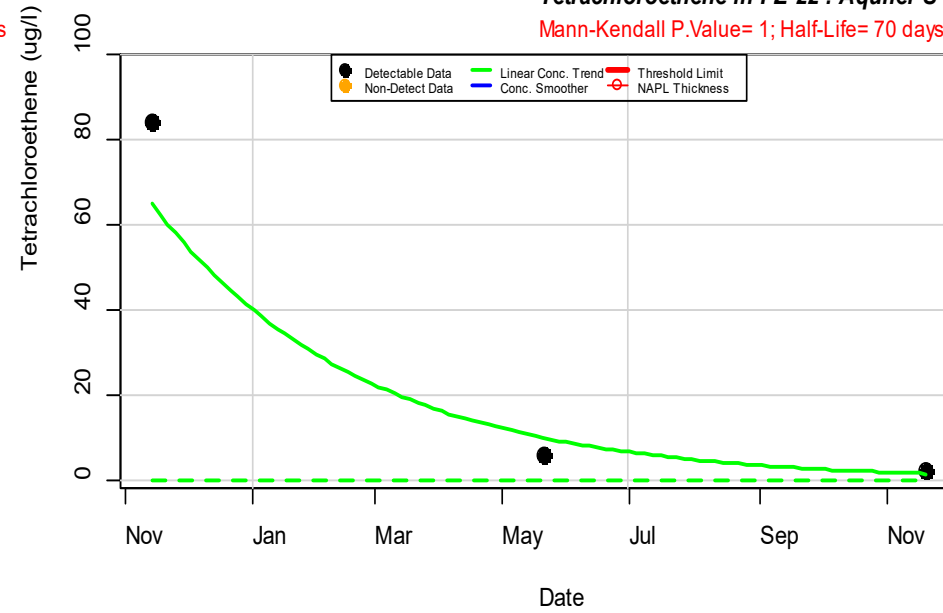
Tetrachloroethene in PZ-21 : Aquifer-S

Mann-Kendall P.Value= 0.0859; Half-Life= 1816 days

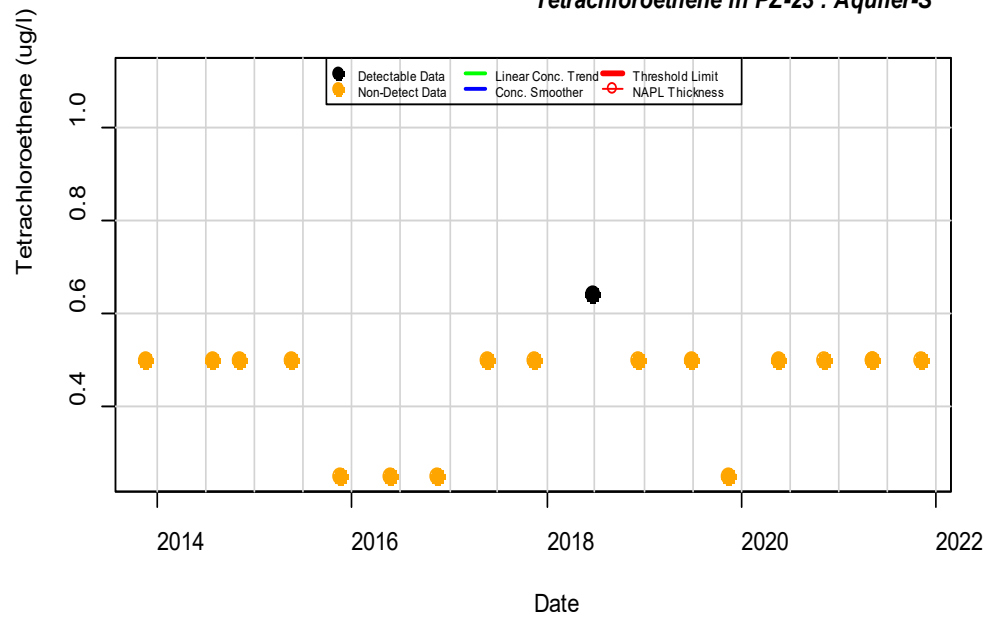


Tetrachloroethene in PZ-22 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life= 70 days

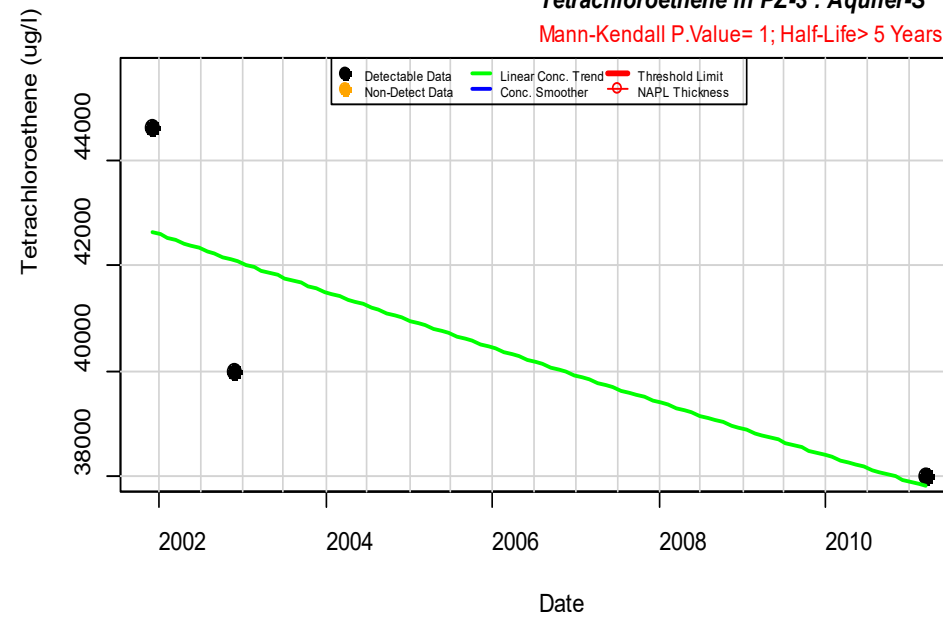


Tetrachloroethene in PZ-23 : Aquifer-S



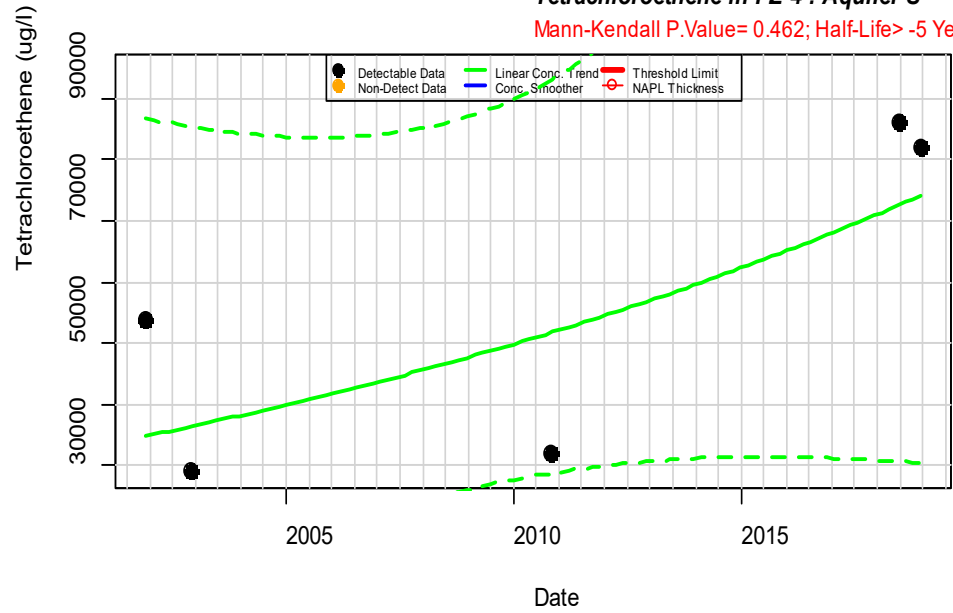
Tetrachloroethene in PZ-3 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

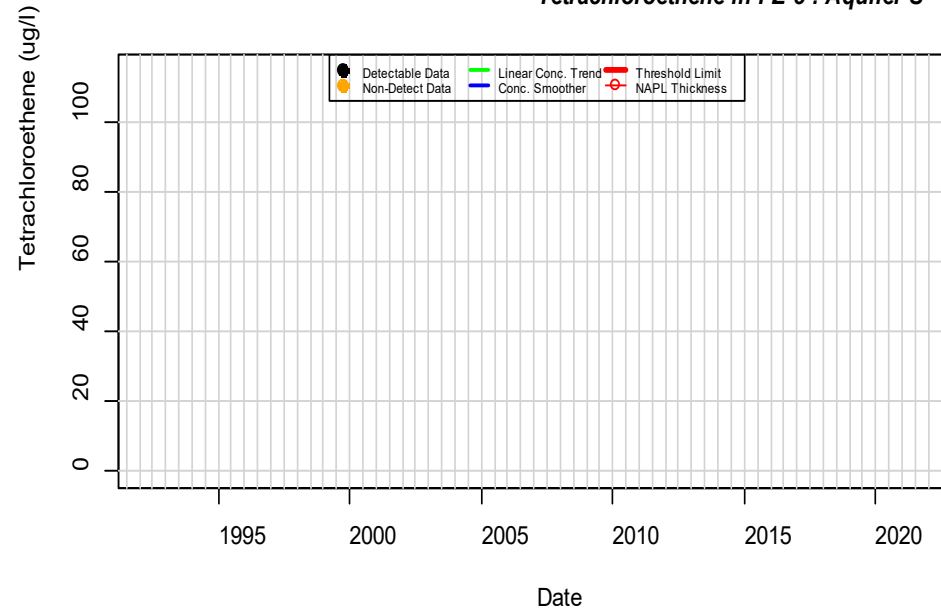


Tetrachloroethene in PZ-4 : Aquifer-S

Mann-Kendall P.Value= 0.462; Half-Life> -5 Years

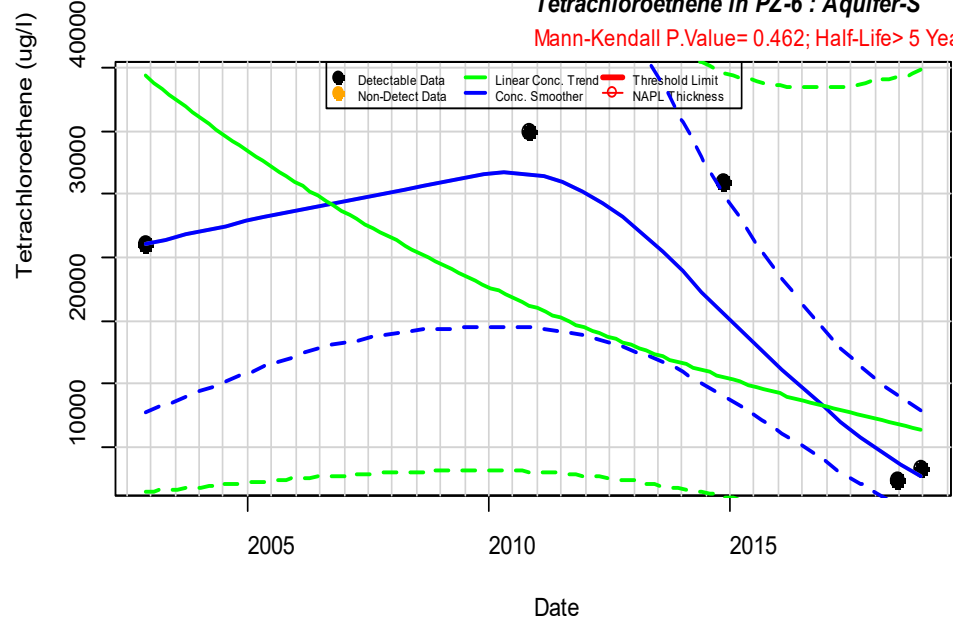


Tetrachloroethene in PZ-5 : Aquifer-S



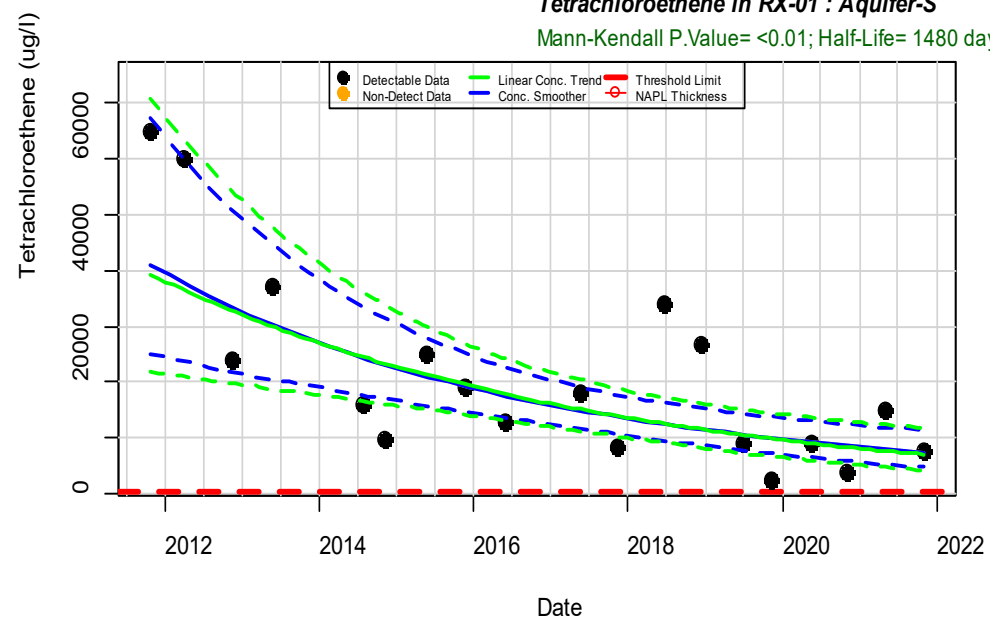
Tetrachloroethene in PZ-6 : Aquifer-S

Mann-Kendall P.Value= 0.462; Half-Life> 5 Years



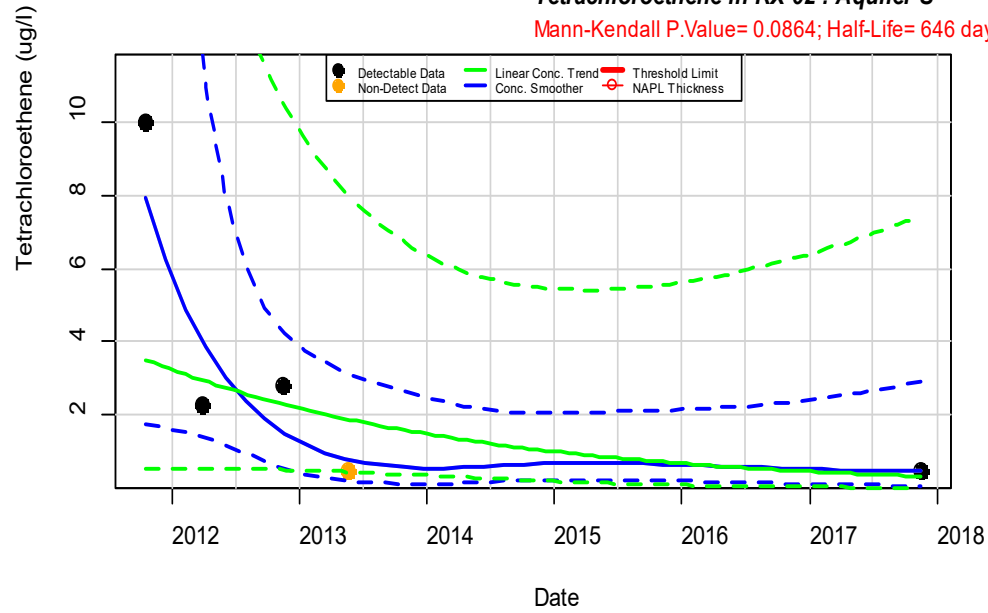
Tetrachloroethene in RX-01 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 1480 days



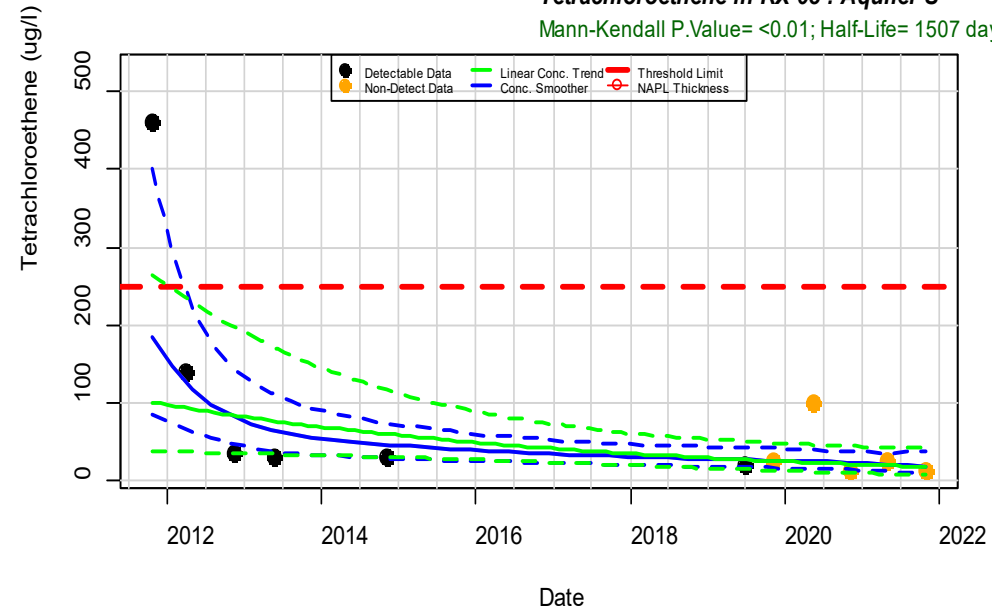
Tetrachloroethene in RX-02 : Aquifer-S

Mann-Kendall P.Value= 0.0864; Half-Life= 646 days



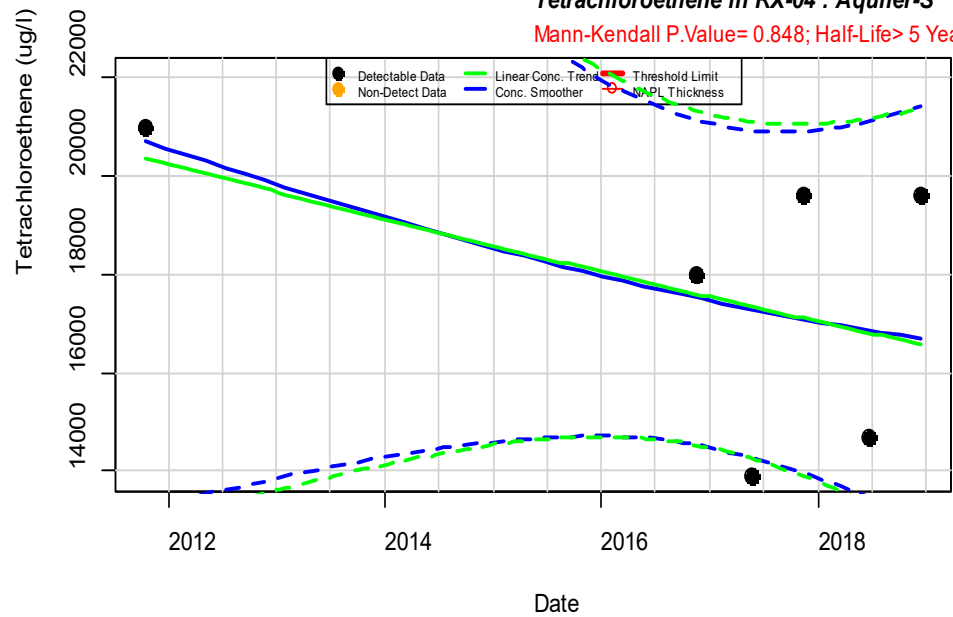
Tetrachloroethene in RX-03 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 1507 days



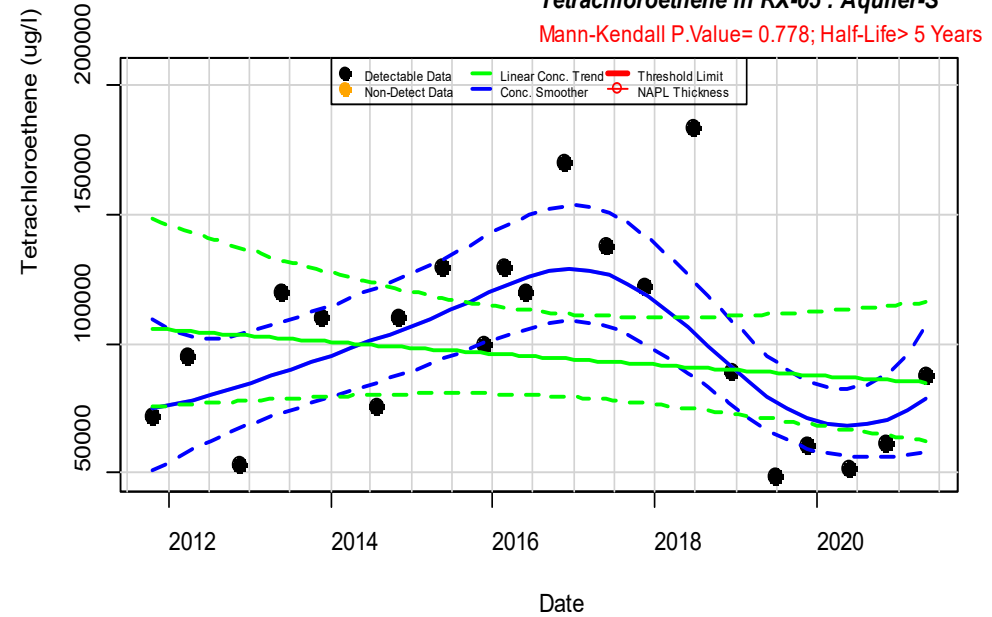
Tetrachloroethene in RX-04 : Aquifer-S

Mann-Kendall P.Value= 0.848; Half-Life> 5 Years

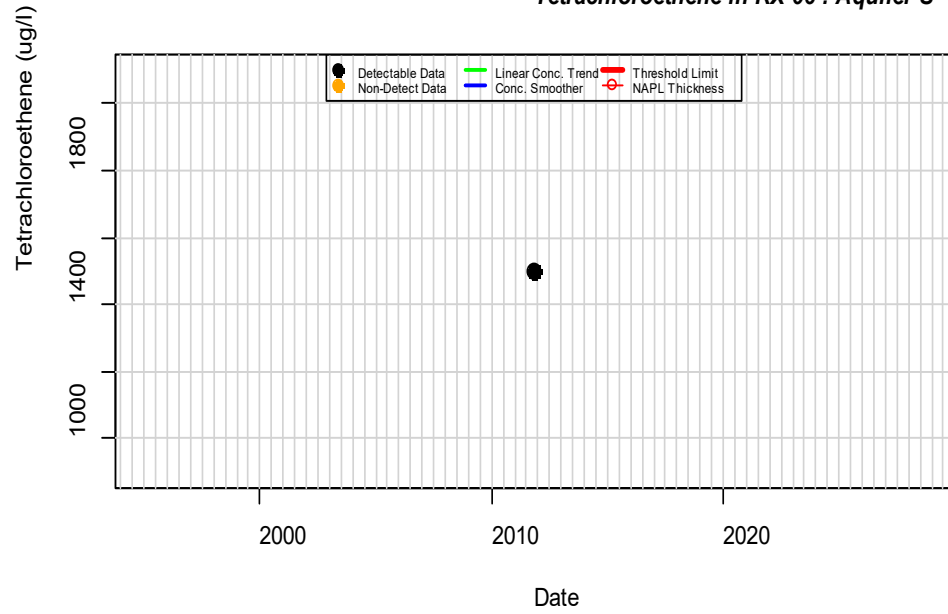


Tetrachloroethene in RX-05 : Aquifer-S

Mann-Kendall P.Value= 0.778; Half-Life> 5 Years

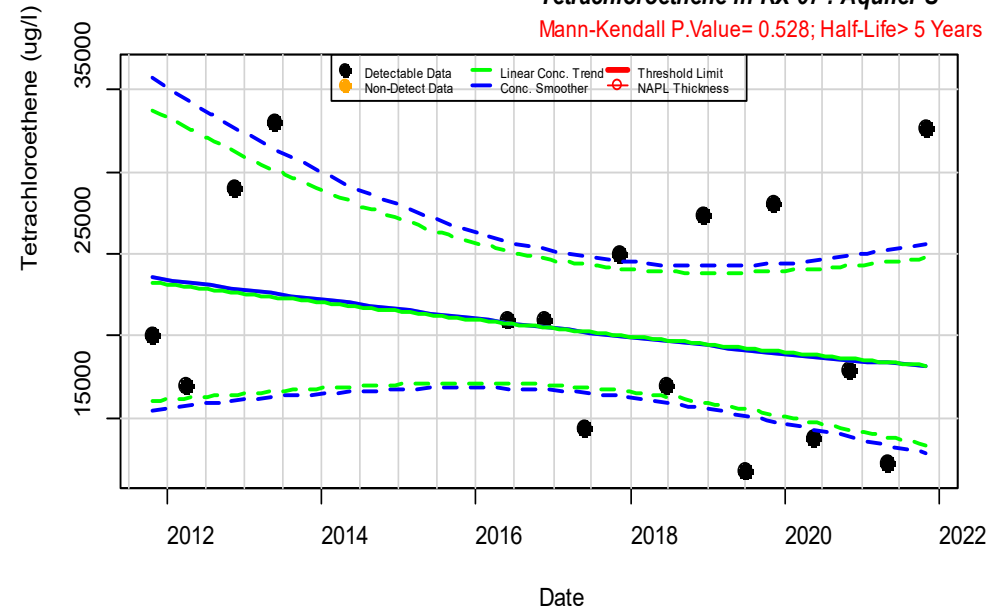


Tetrachloroethene in RX-06 : Aquifer-S



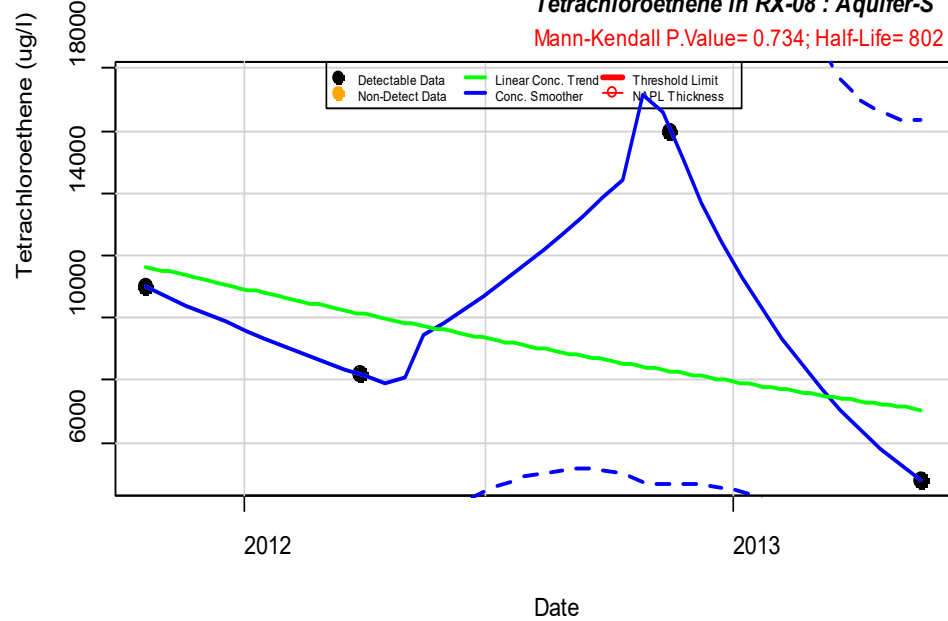
Tetrachloroethene in RX-07 : Aquifer-S

Mann-Kendall P.Value= 0.528; Half-Life> 5 Years



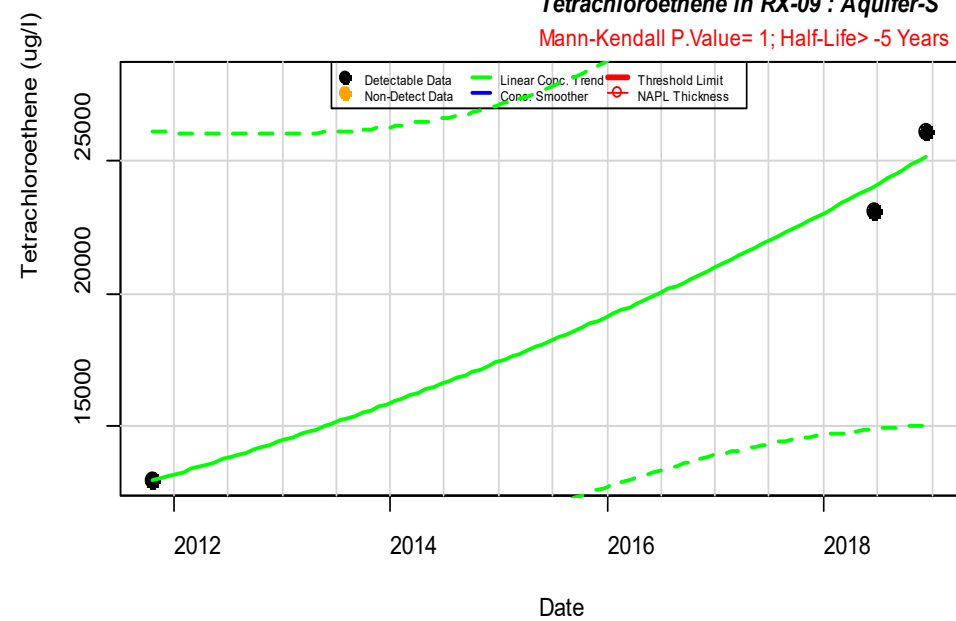
Tetrachloroethene in RX-08 : Aquifer-S

Mann-Kendall P.Value= 0.734; Half-Life= 802 days



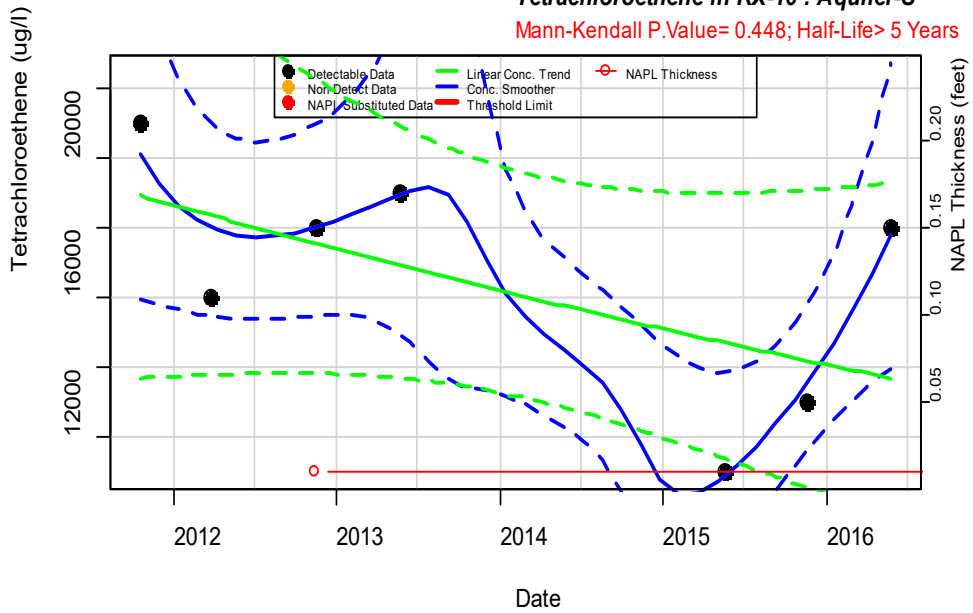
Tetrachloroethene in RX-09 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> -5 Years



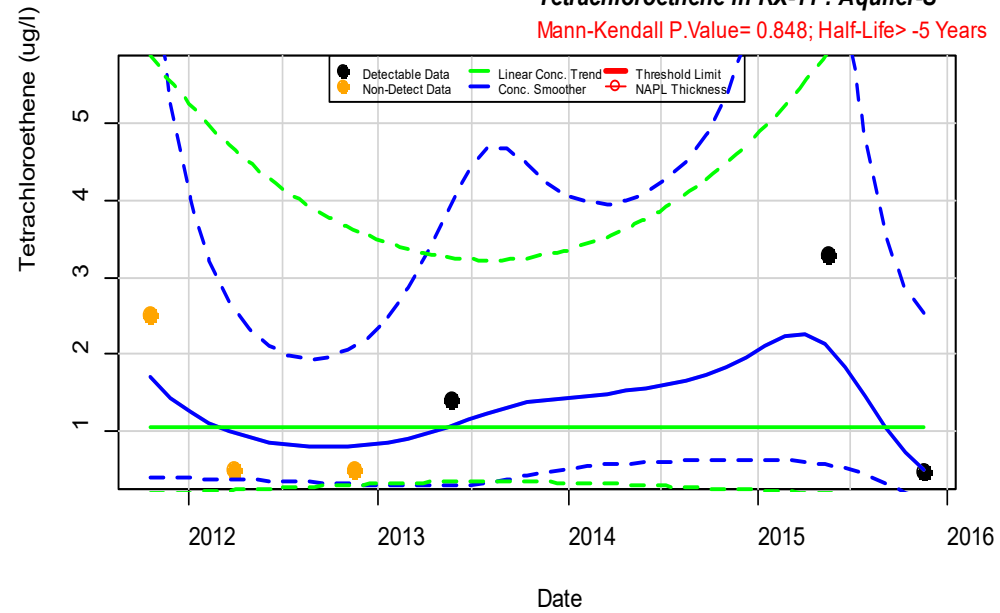
Tetrachloroethene in RX-10 : Aquifer-S

Mann-Kendall P.Value= 0.448; Half-Life> 5 Years



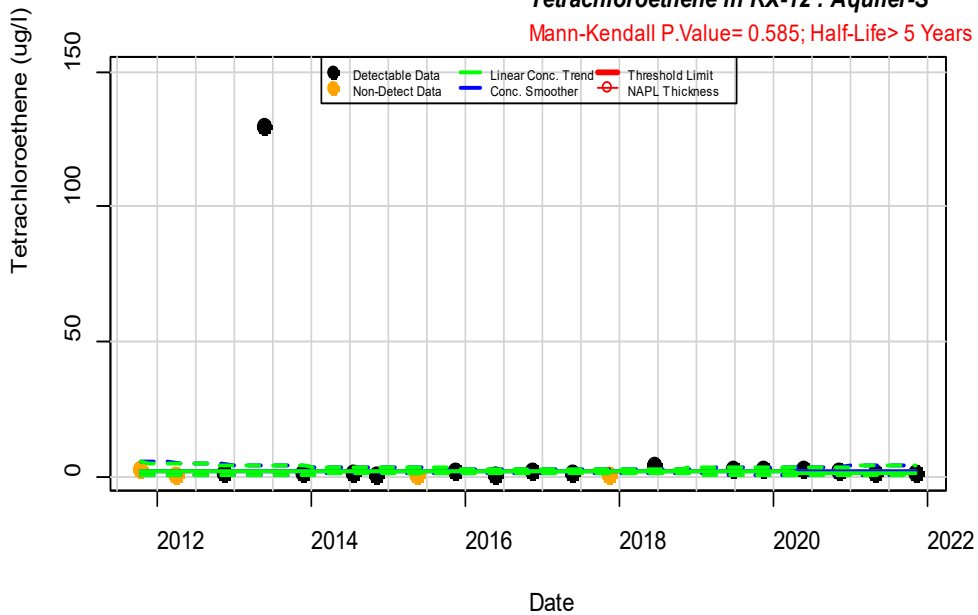
Tetrachloroethene in RX-11 : Aquifer-S

Mann-Kendall P.Value= 0.848; Half-Life> -5 Years



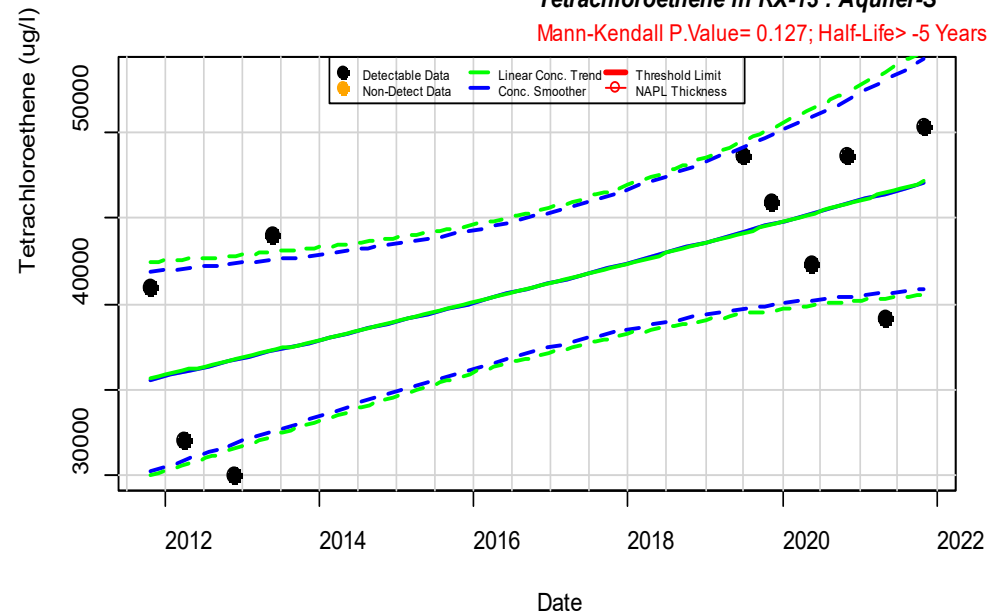
Tetrachloroethene in RX-12 : Aquifer-S

Mann-Kendall P.Value= 0.585; Half-Life> 5 Years



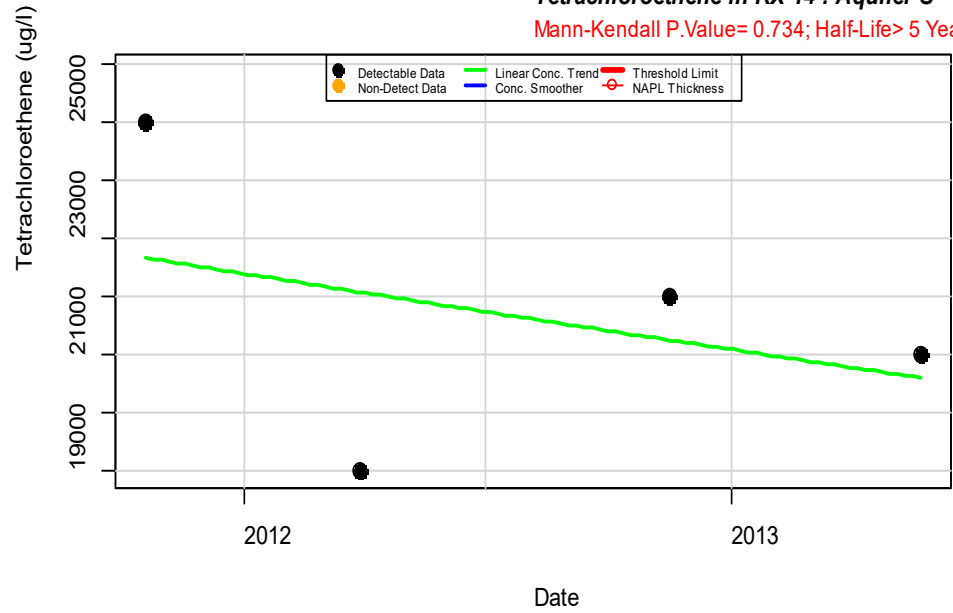
Tetrachloroethene in RX-13 : Aquifer-S

Mann-Kendall P.Value= 0.127; Half-Life> -5 Years

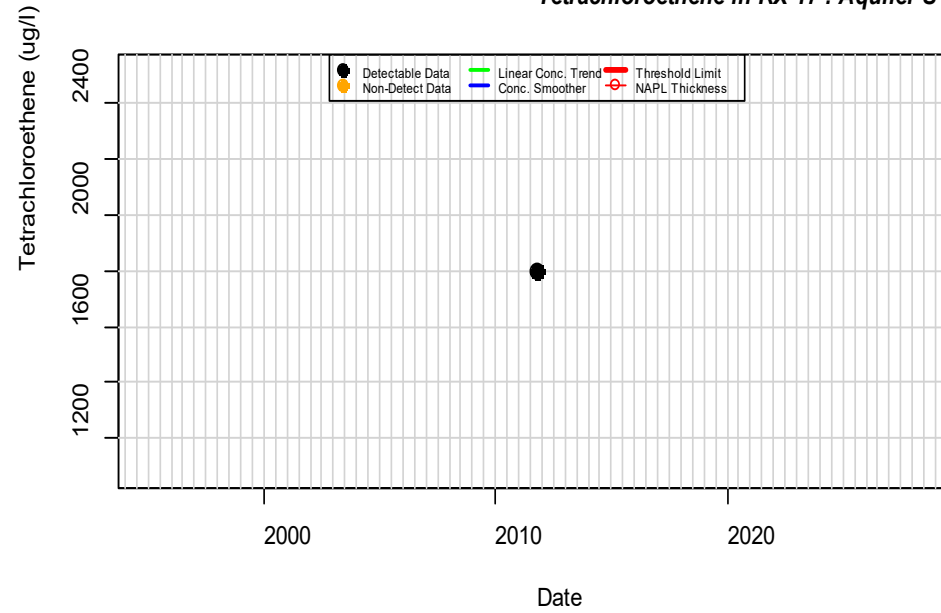


Tetrachloroethene in RX-14 : Aquifer-S

Mann-Kendall P.Value= 0.734; Half-Life> 5 Years

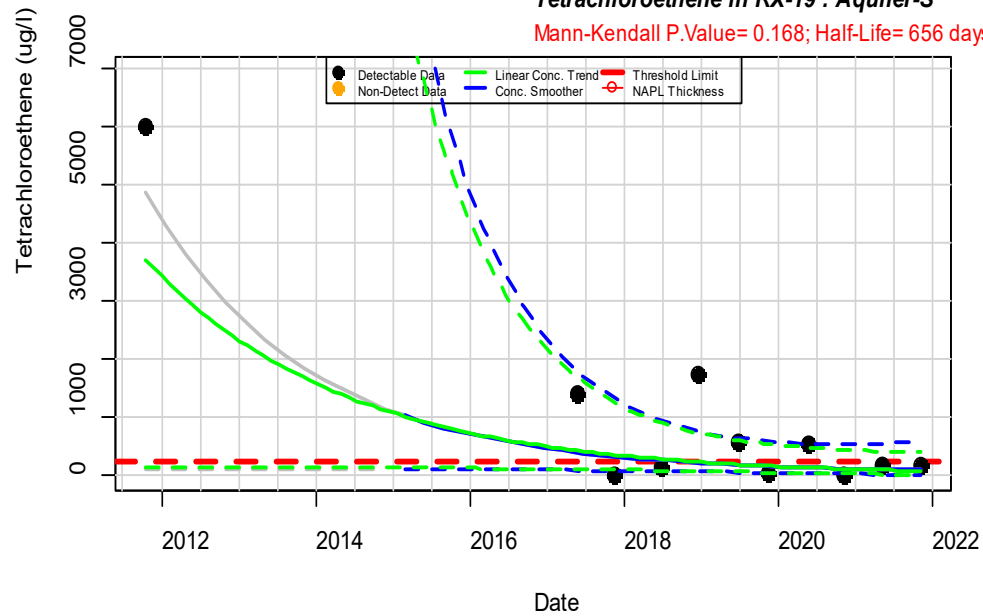


Tetrachloroethene in RX-17 : Aquifer-S



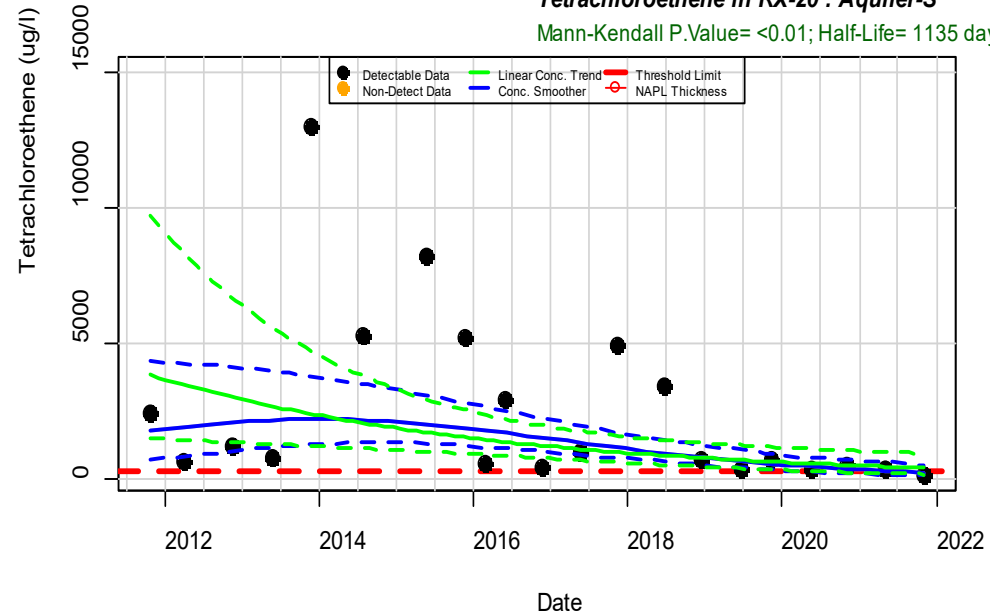
Tetrachloroethene in RX-19 : Aquifer-S

Mann-Kendall P.Value= 0.168; Half-Life= 656 days

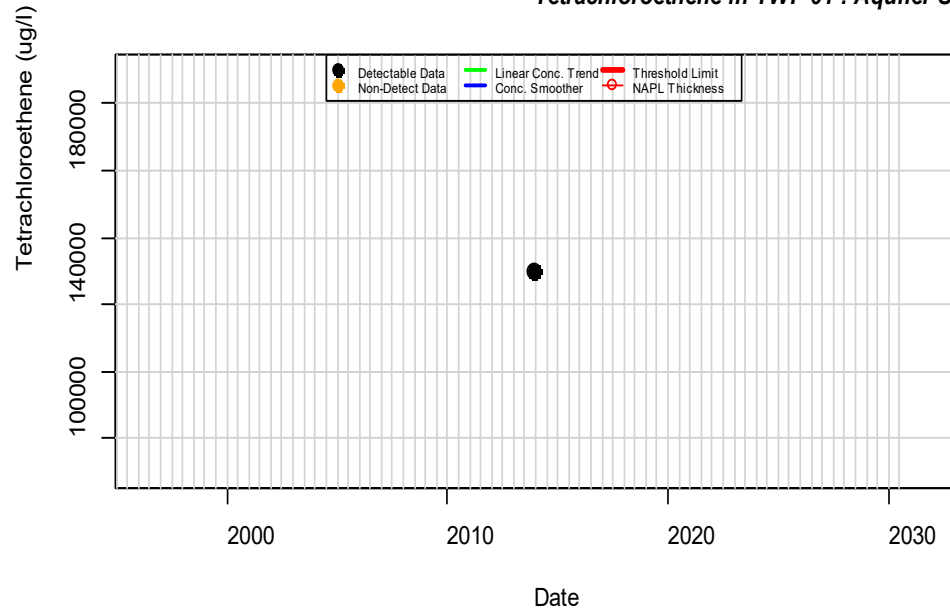


Tetrachloroethene in RX-20 : Aquifer-S

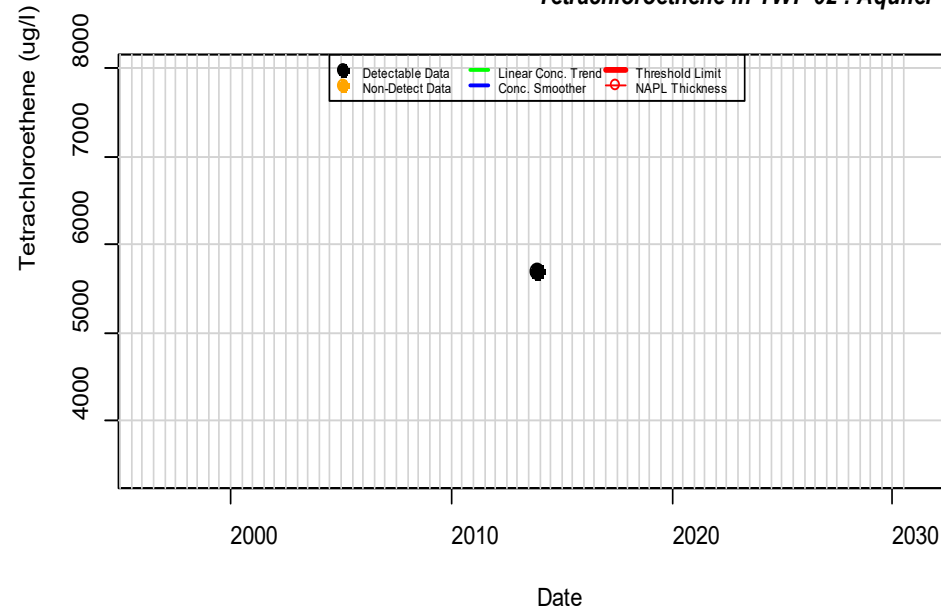
Mann-Kendall P.Value= <0.01; Half-Life= 1135 days



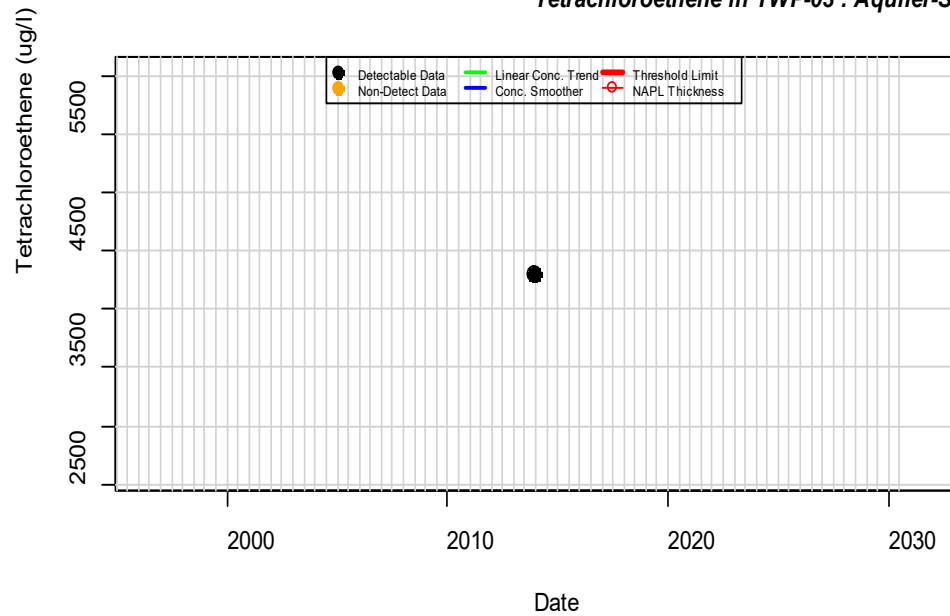
Tetrachloroethene in TWP-01 : Aquifer-S



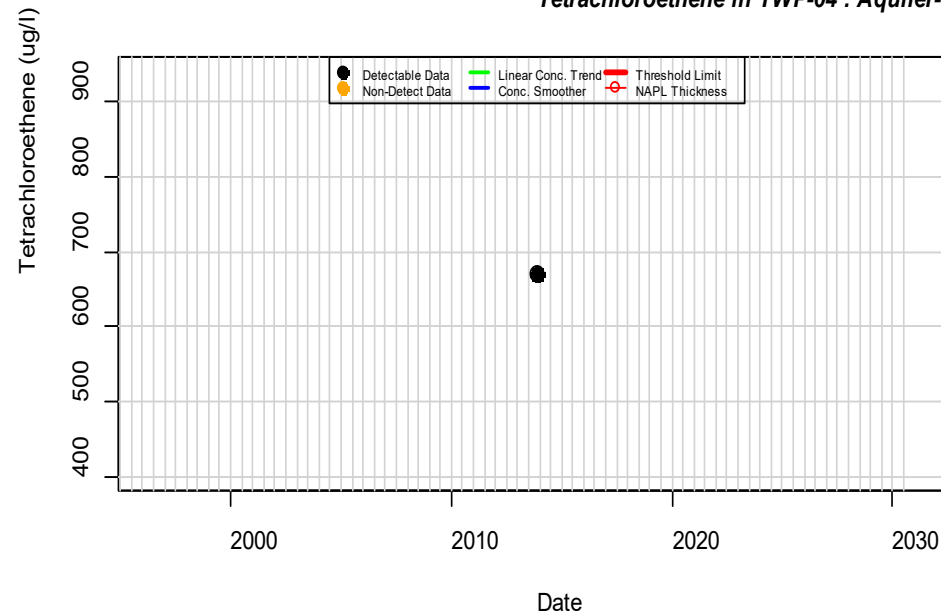
Tetrachloroethene in TWP-02 : Aquifer-S



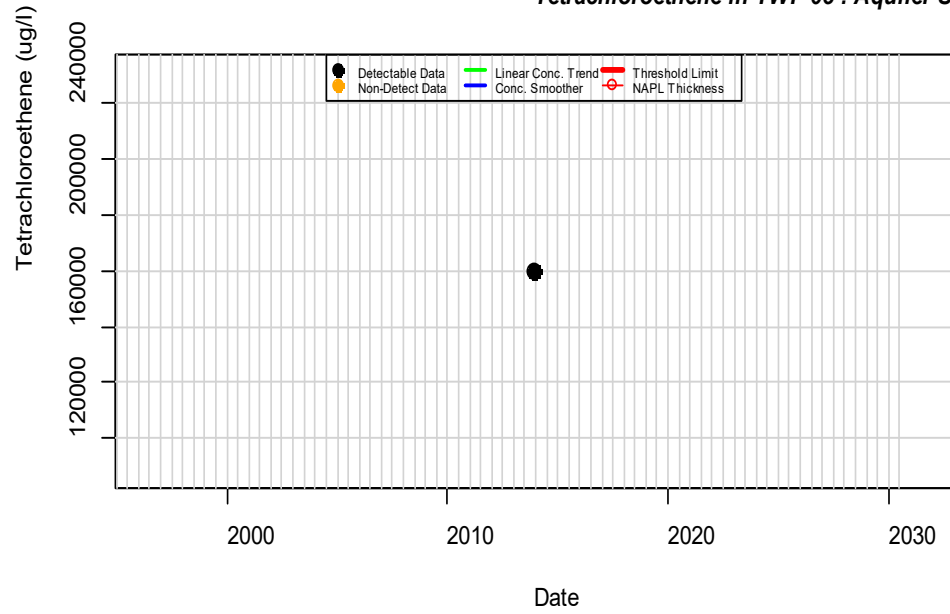
Tetrachloroethene in TWP-03 : Aquifer-S



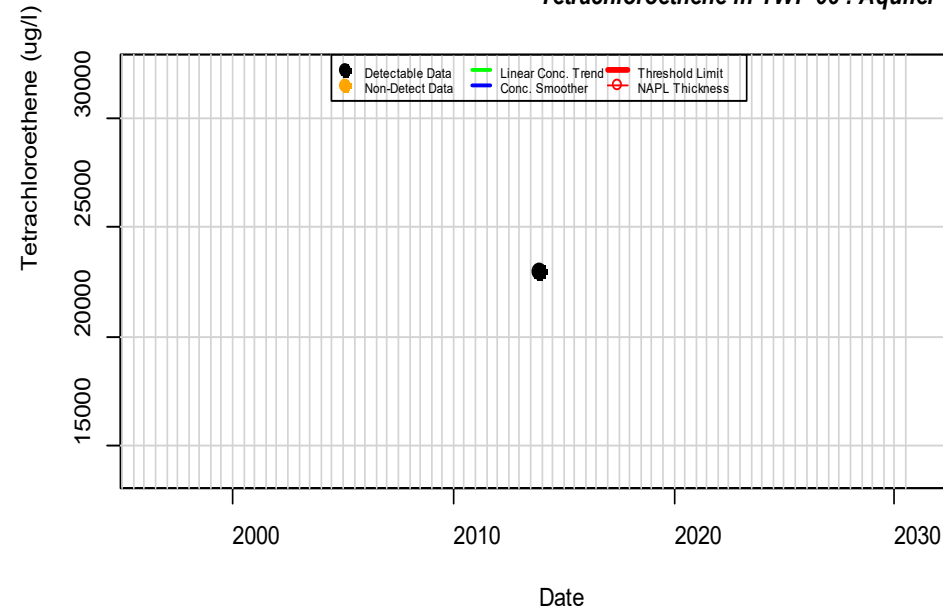
Tetrachloroethene in TWP-04 : Aquifer-S



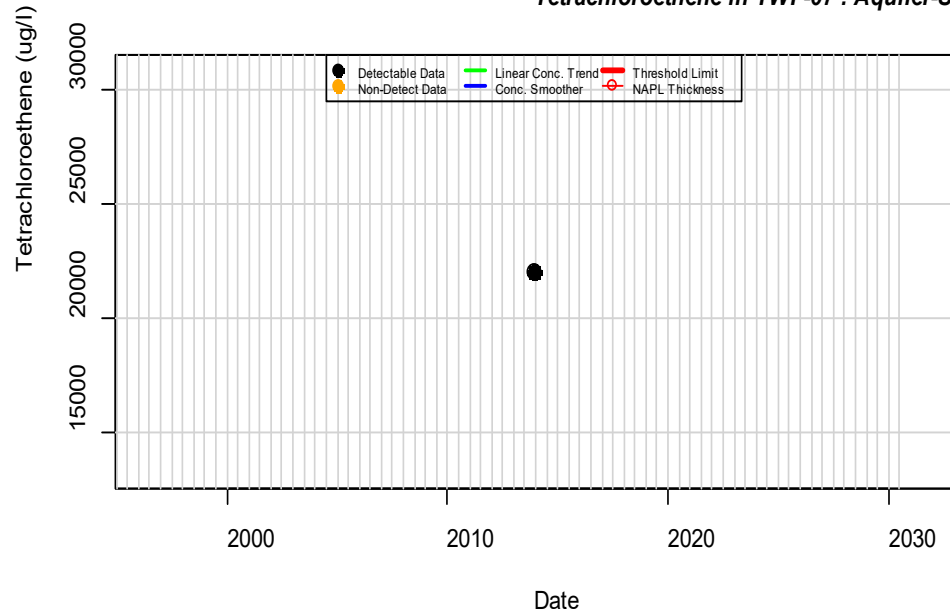
Tetrachloroethene in TWP-05 : Aquifer-S



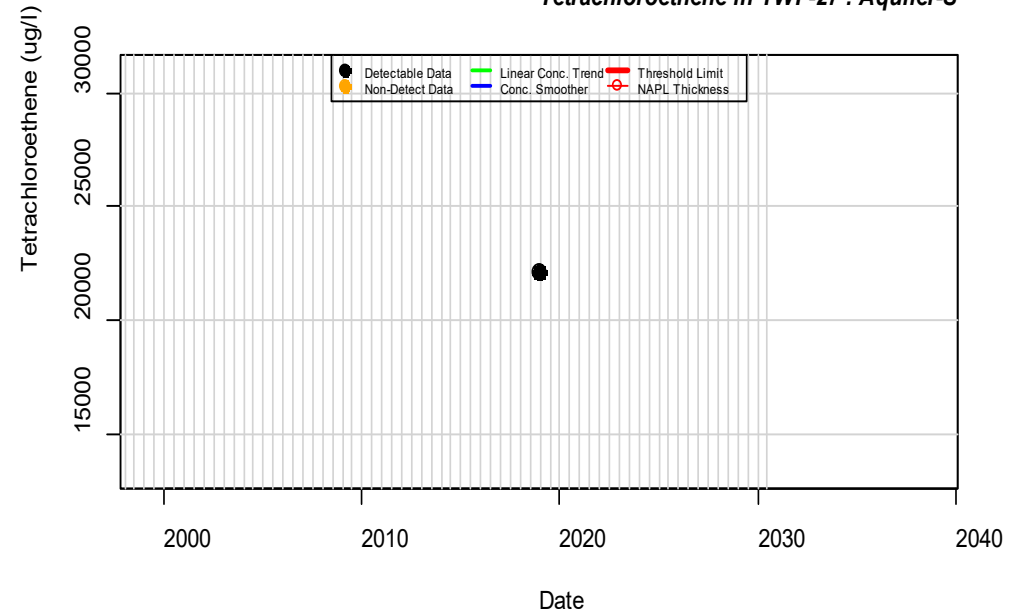
Tetrachloroethene in TWP-06 : Aquifer-S



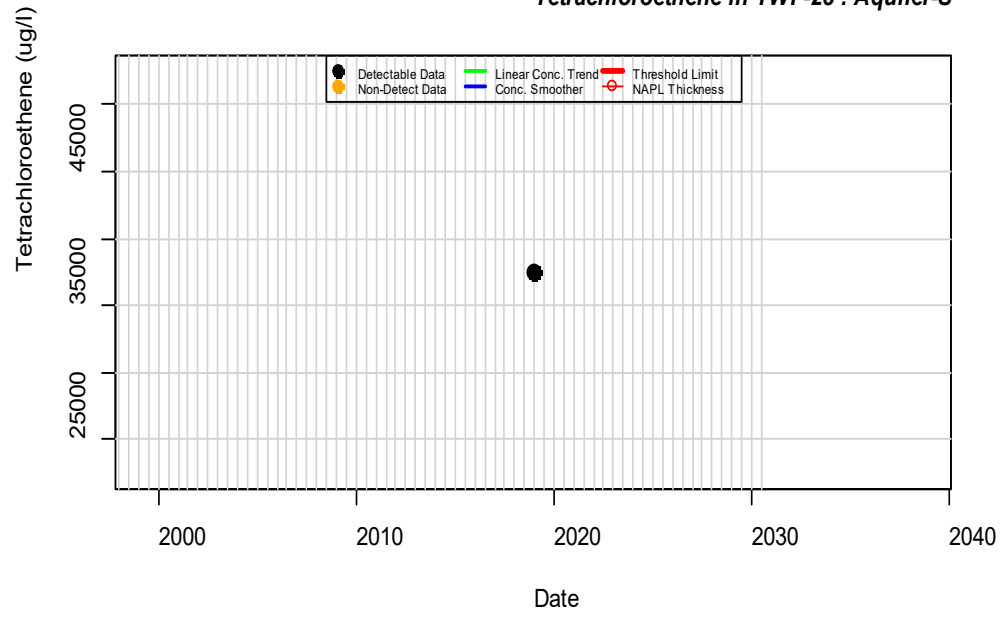
Tetrachloroethene in TWP-07 : Aquifer-S



Tetrachloroethene in TWP-27 : Aquifer-S



Tetrachloroethene in TWP-28 : Aquifer-S

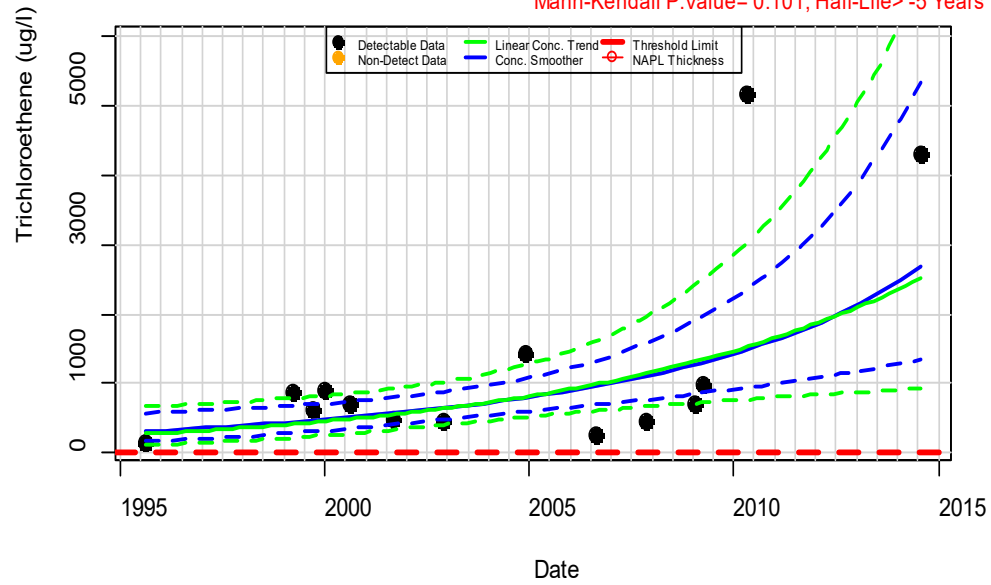


Trichloroethene

12 ug/L Threshold

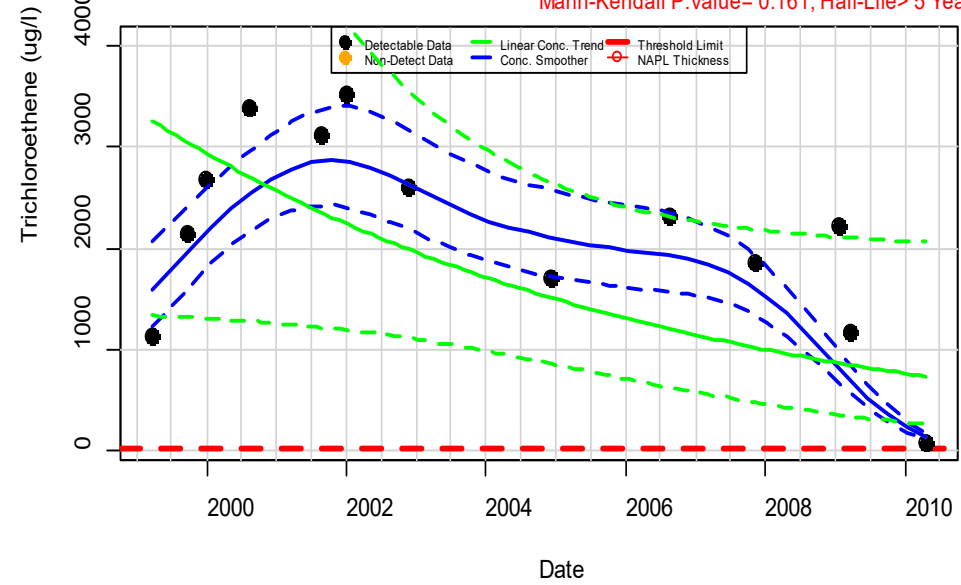
Trichloroethene in EW-401 : Aquifer-S

Mann-Kendall P.Value= 0.101; Half-Life> -5 Years



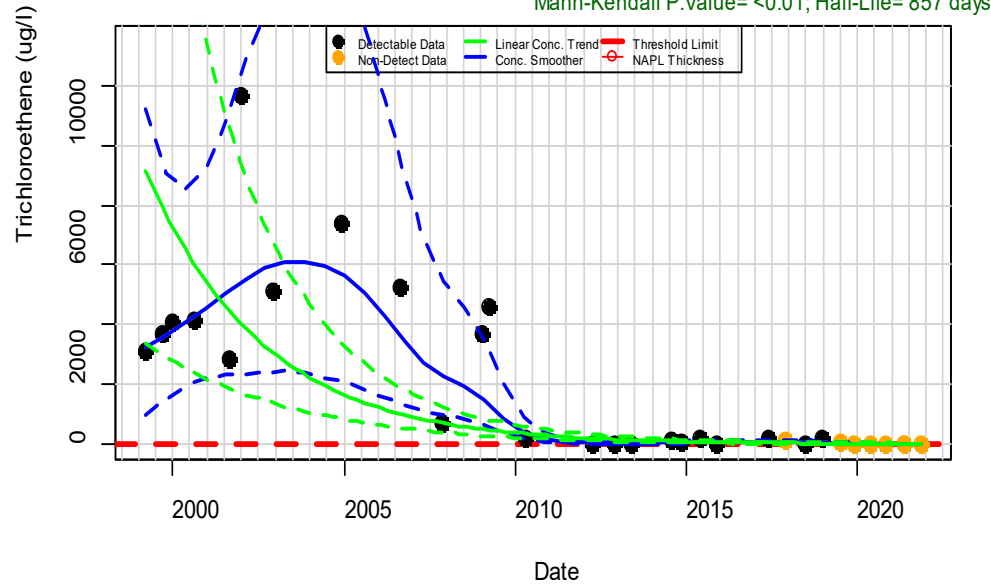
Trichloroethene in EW-402 : Aquifer-S

Mann-Kendall P.Value= 0.161; Half-Life> 5 Years



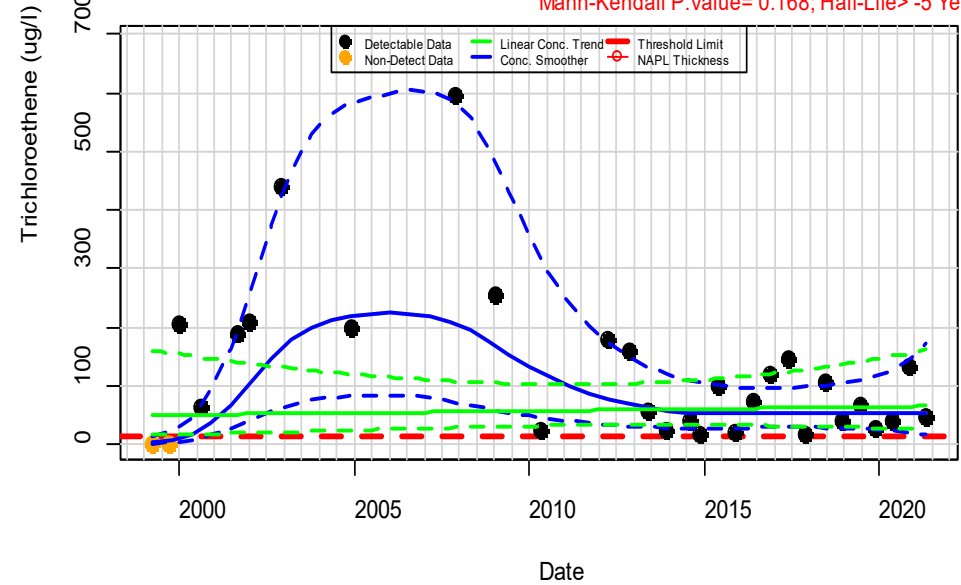
Trichloroethene in EW-403 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= 857 days



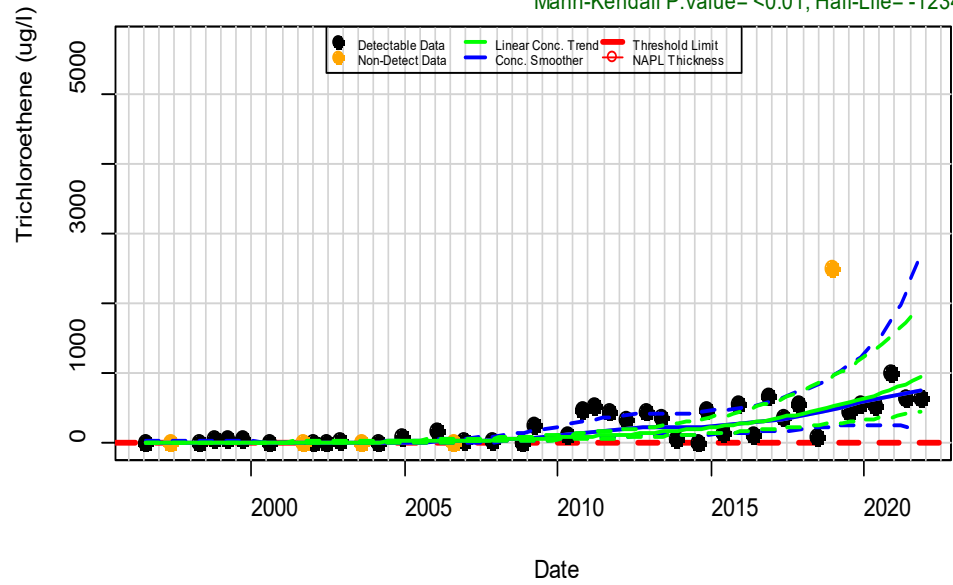
Trichloroethene in EW-404 : Aquifer-S

Mann-Kendall P.Value= 0.168; Half-Life> -5 Years



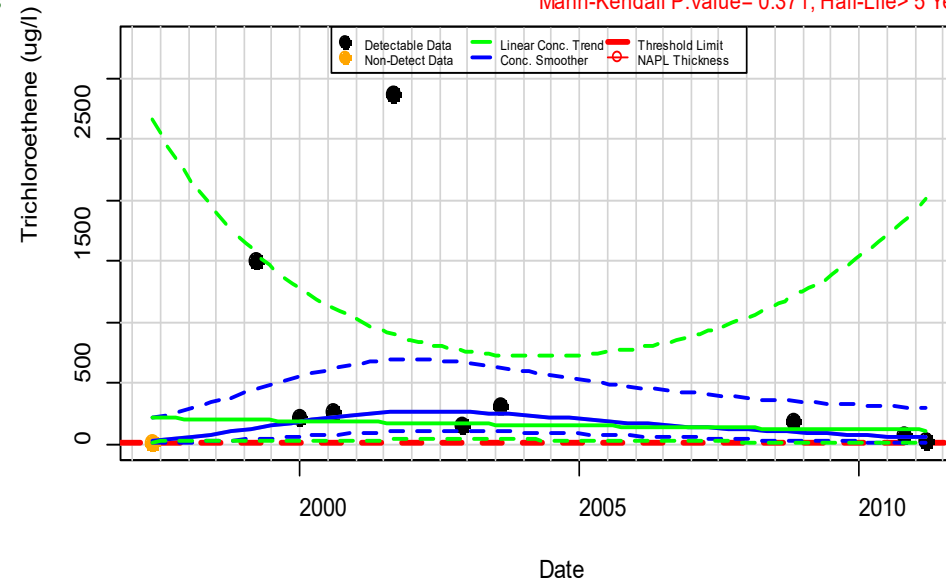
Trichloroethene in MW-101 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= -1234 days



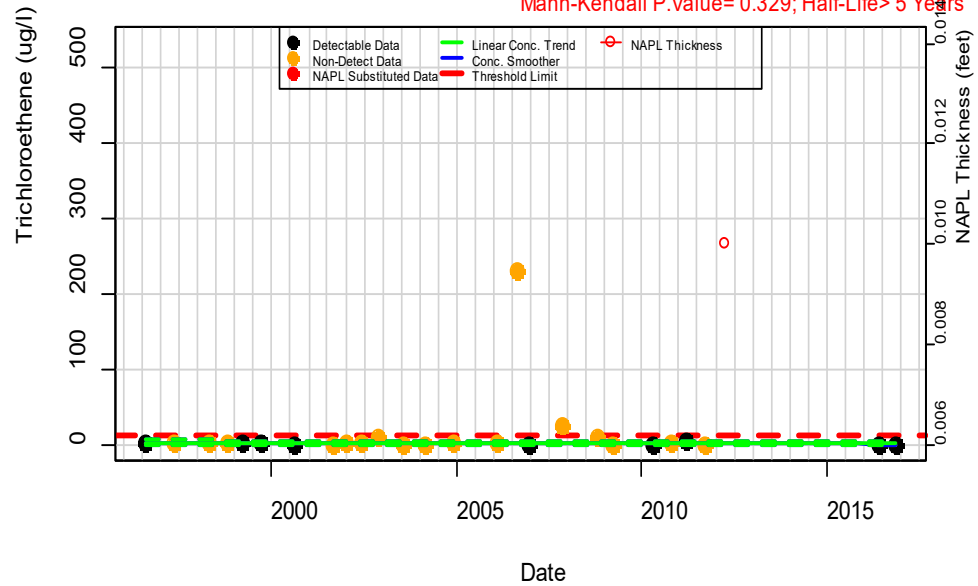
Trichloroethene in MW-103 : Aquifer-S

Mann-Kendall P.Value= 0.371; Half-Life> 5 Years



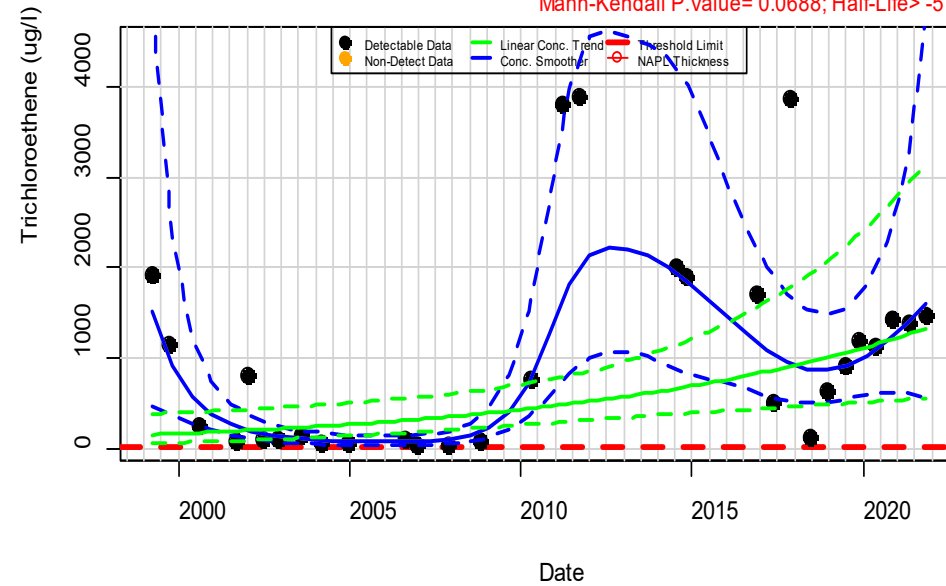
Trichloroethene in MW-105 : Aquifer-S

Mann-Kendall P.Value= 0.329; Half-Life> 5 Years



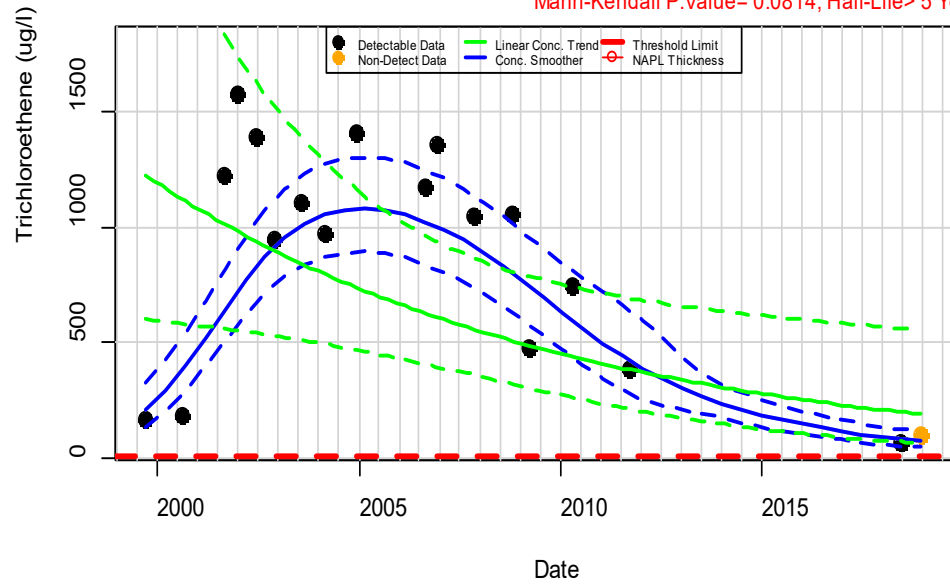
Trichloroethene in MW-106 : Aquifer-S

Mann-Kendall P.Value= 0.0688; Half-Life> -5 Years



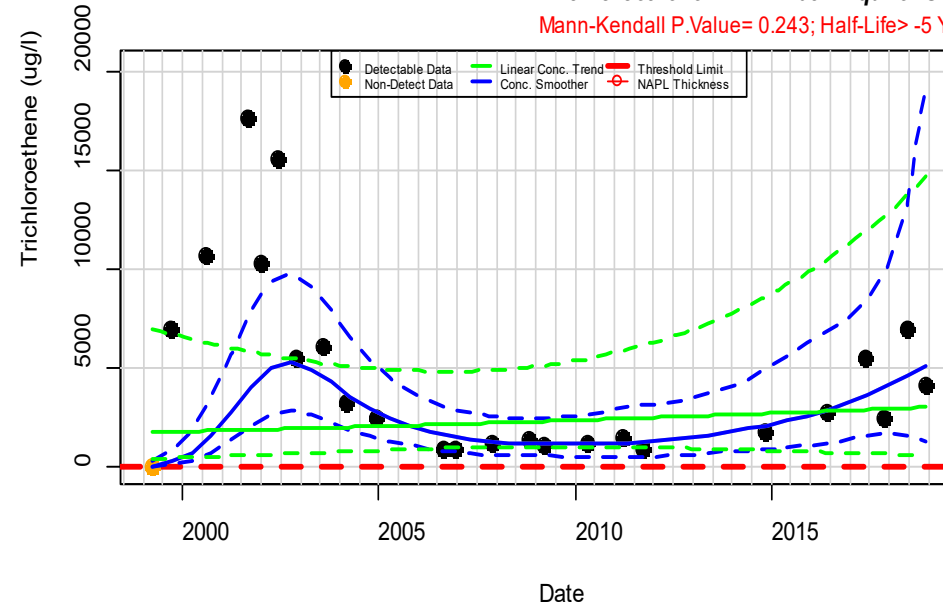
Trichloroethene in MW-107 : Aquifer-S

Mann-Kendall P.Value= 0.0814; Half-Life> 5 Years



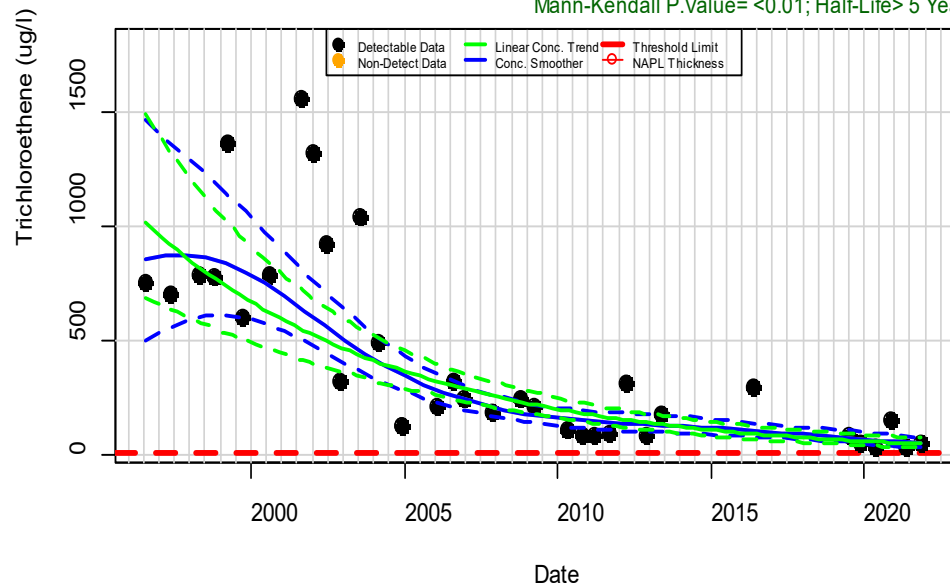
Trichloroethene in MW-108 : Aquifer-S

Mann-Kendall P.Value= 0.243; Half-Life> -5 Years



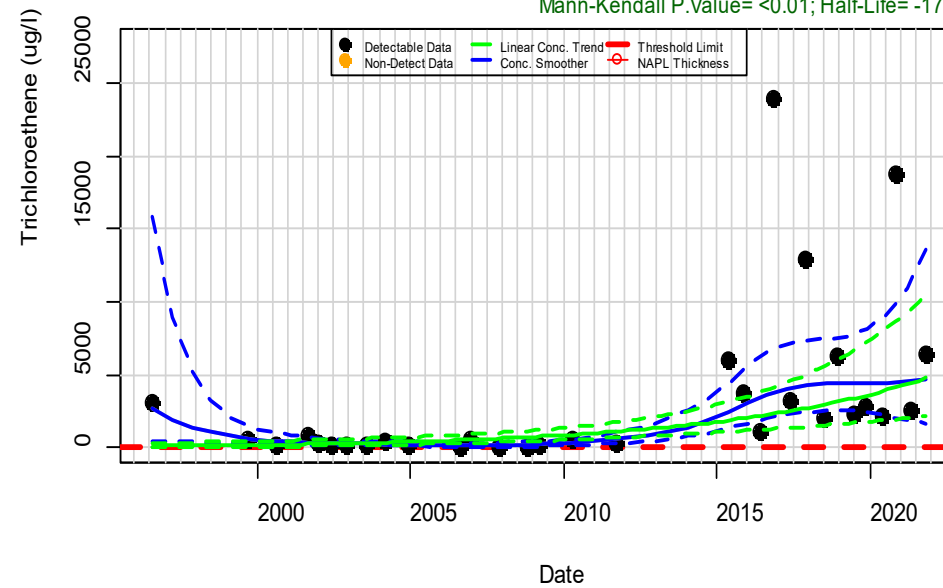
Trichloroethene in MW-109 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> 5 Years

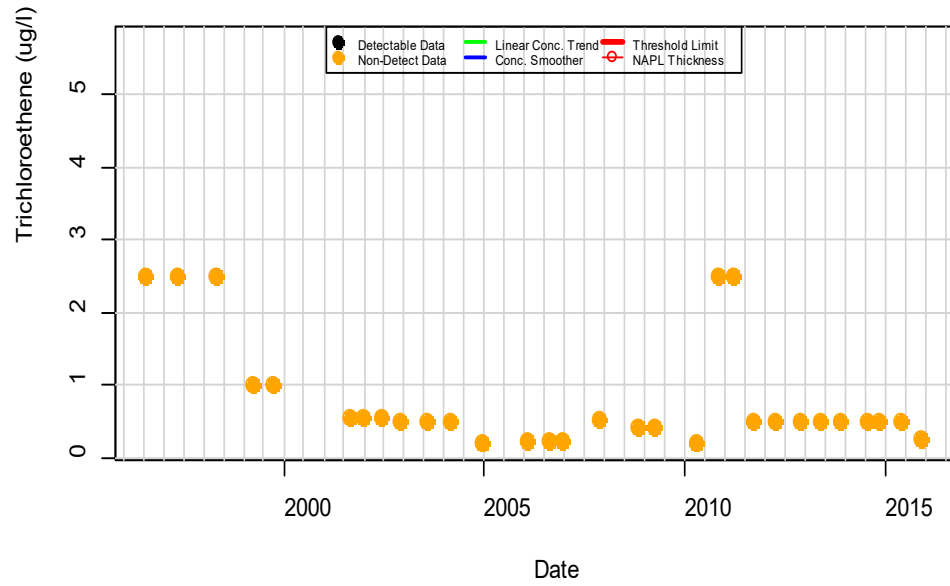


Trichloroethene in MW-111 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= -1769 days

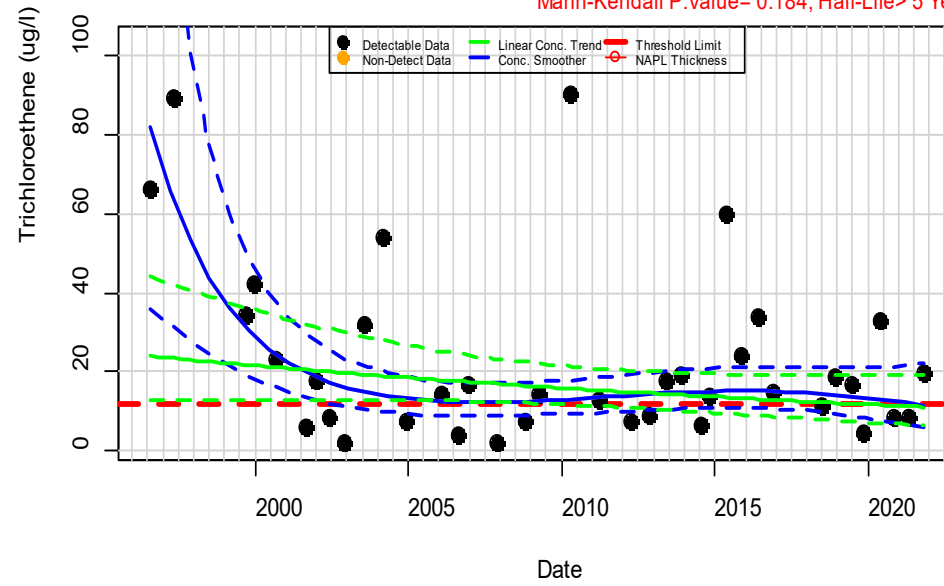


Trichloroethene in MW-202 : Aquifer-S



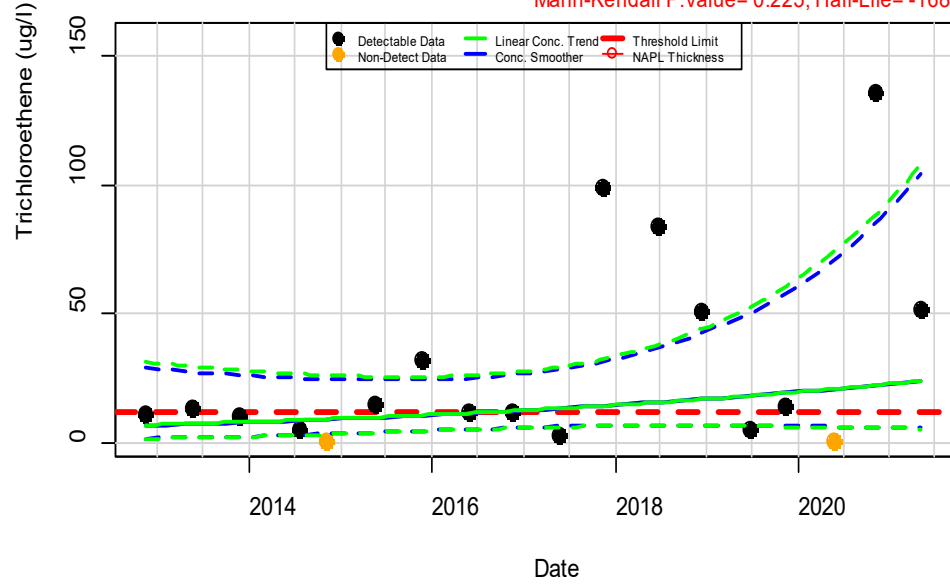
Trichloroethene in MW-204 : Aquifer-S

Mann-Kendall P.Value= 0.184; Half-Life> 5 Years

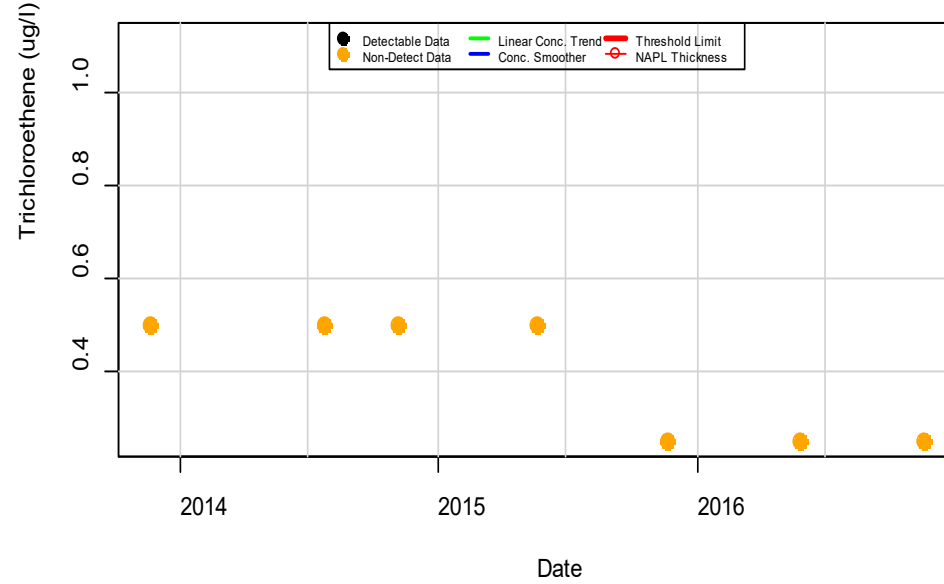


Trichloroethene in MW-206B : Aquifer-S

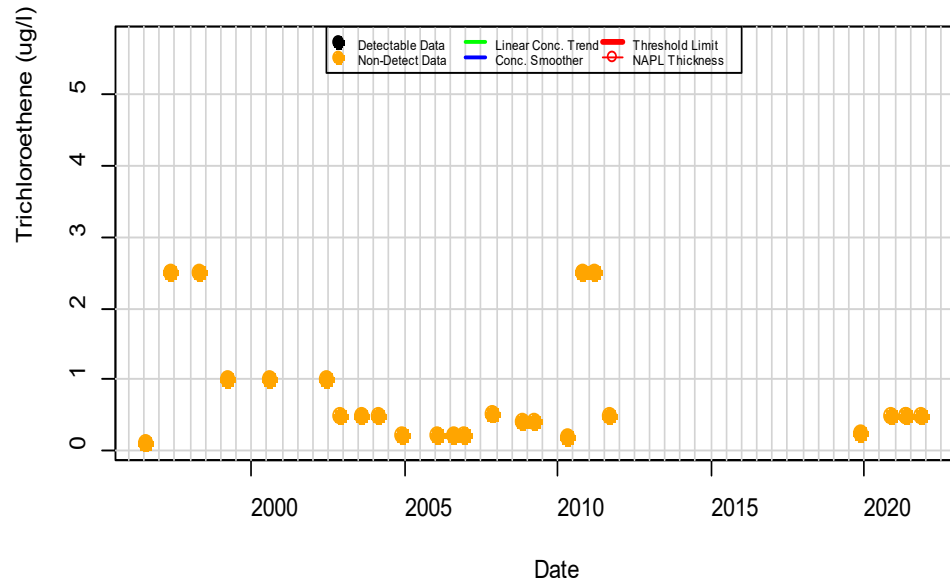
Mann-Kendall P.Value= 0.225; Half-Life= -1688 days



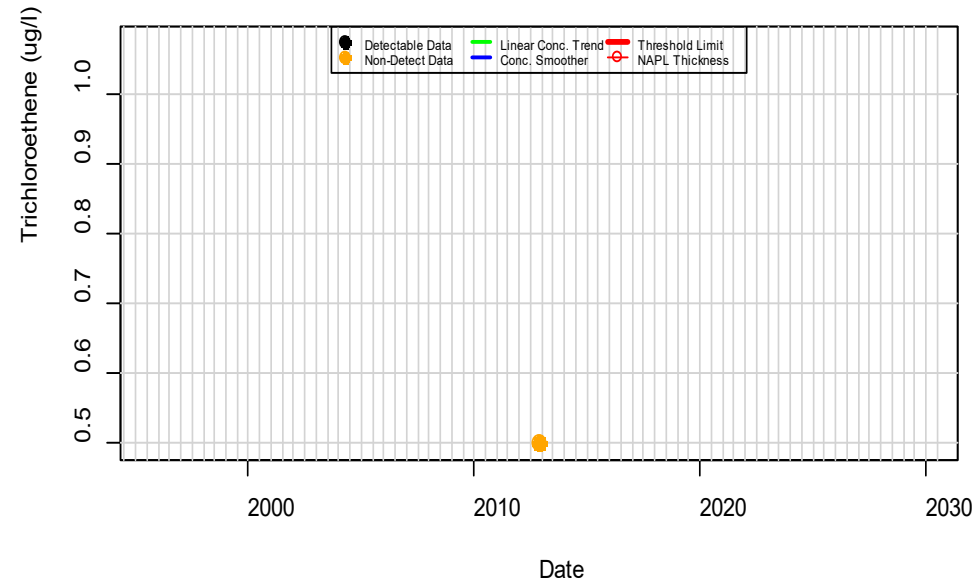
Trichloroethene in MW-207 : Aquifer-S



Trichloroethene in MW-208 : Aquifer-S

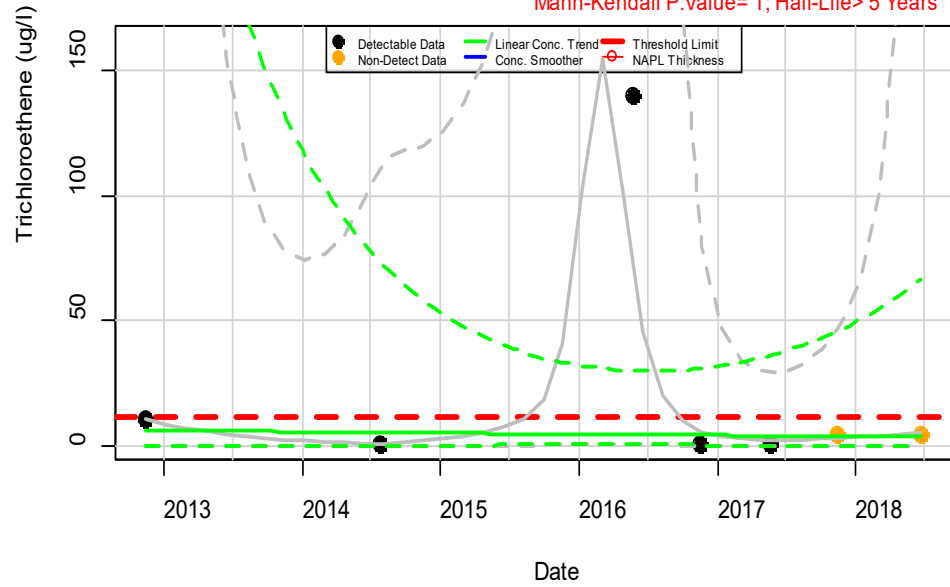


Trichloroethene in MW-31 : Aquifer-S



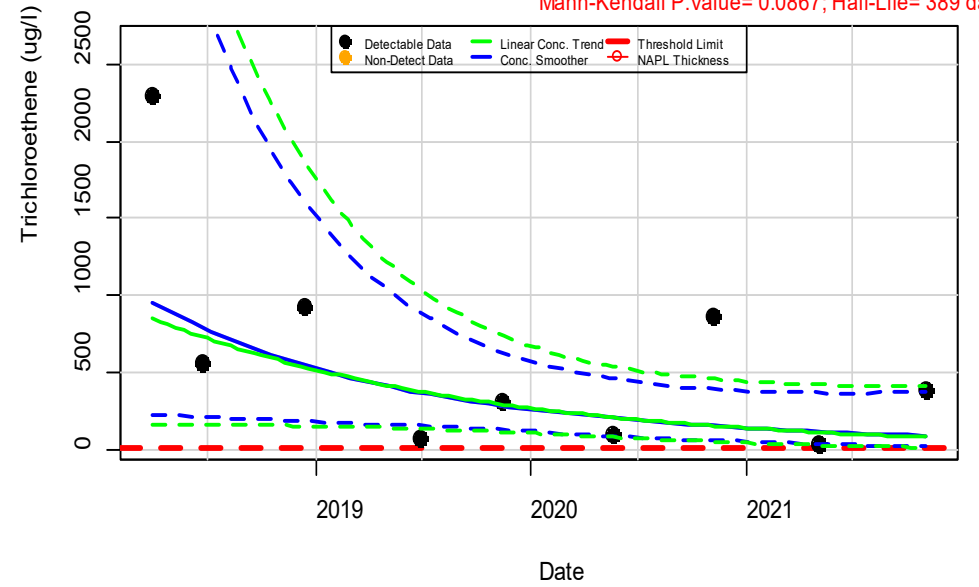
Trichloroethene in MW-32 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

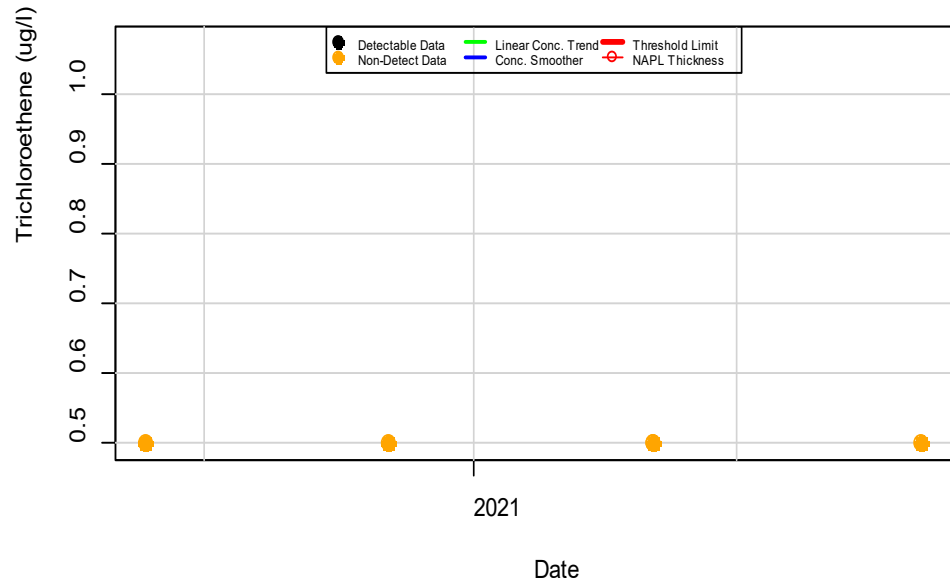


Trichloroethene in MW-33 : Aquifer-S

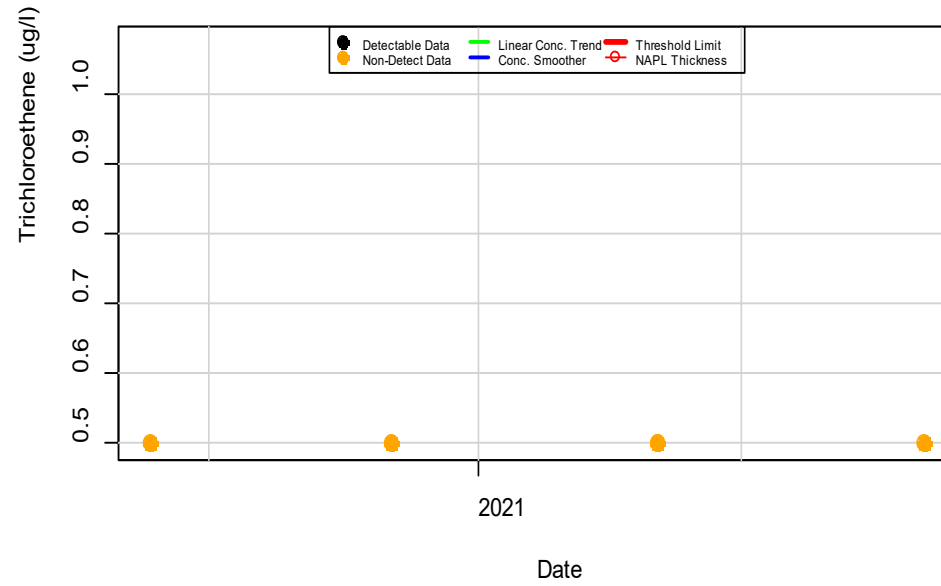
Mann-Kendall P.Value= 0.0867; Half-Life= 389 days



Trichloroethene in MW-34 : Aquifer-S

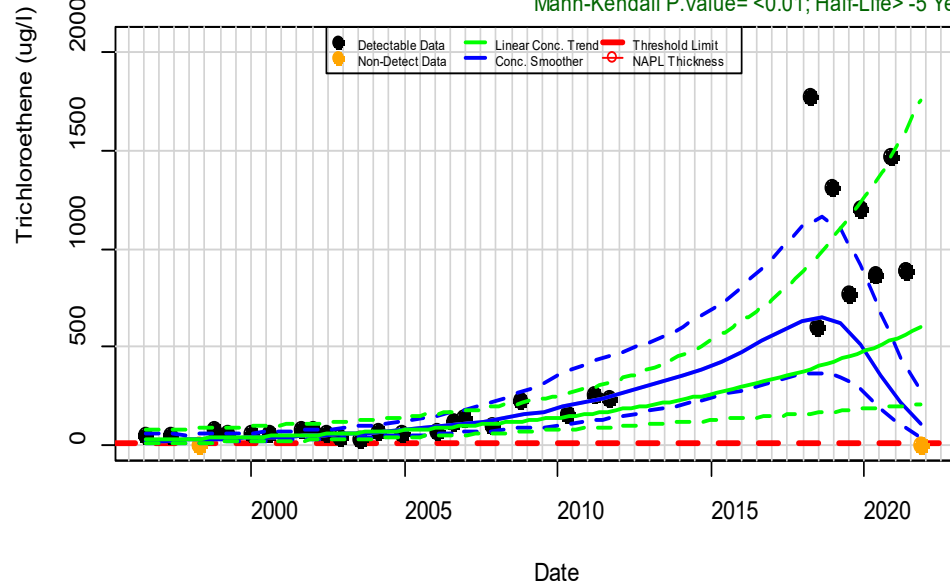


Trichloroethene in MW-35 : Aquifer-S



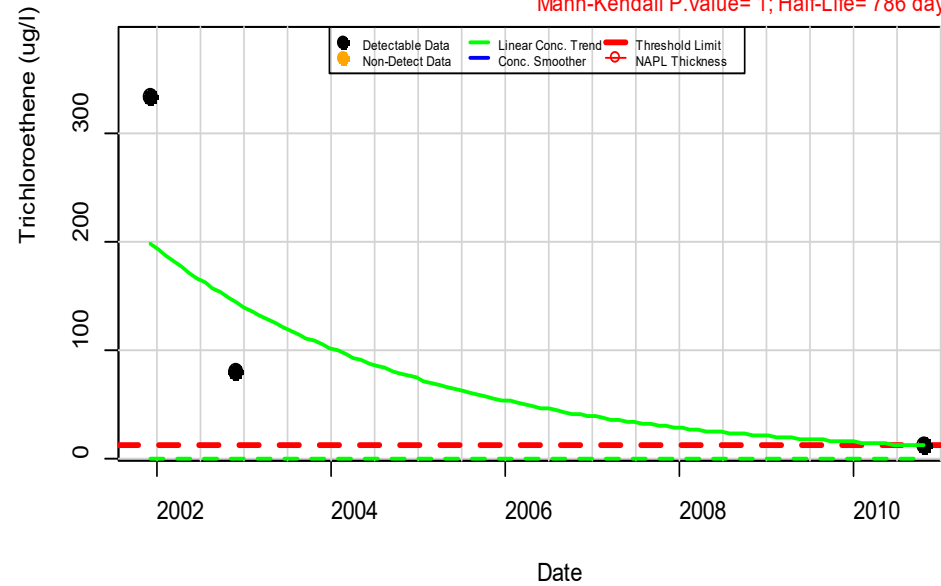
Trichloroethene in MW-401B : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life> -5 Years



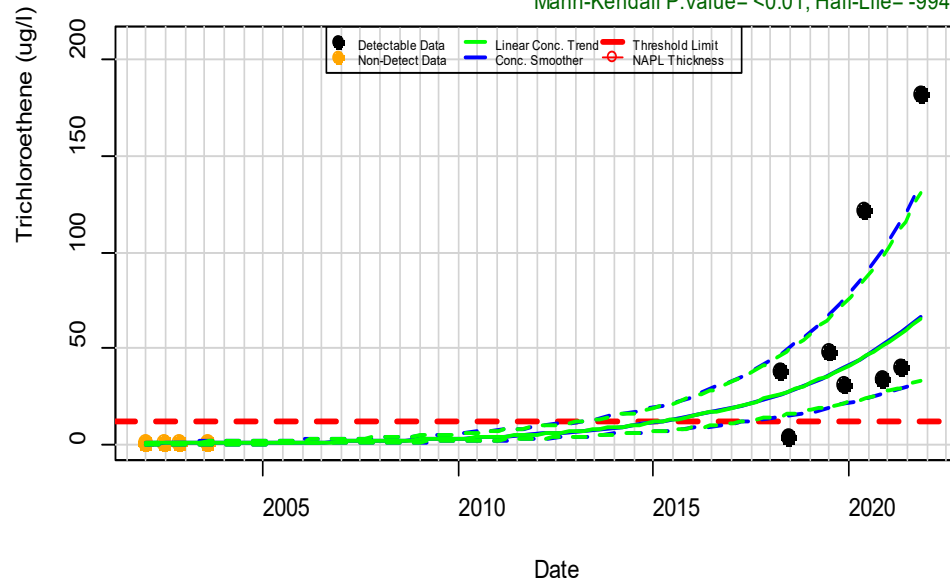
Trichloroethene in PZ-1 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life= 786 days

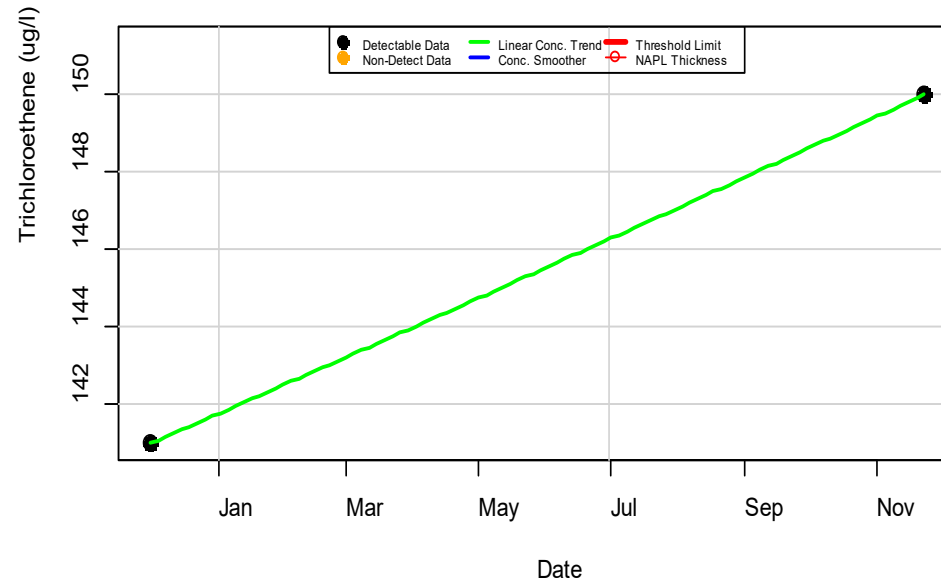


Trichloroethene in PZ-10 : Aquifer-S

Mann-Kendall P.Value= <0.01; Half-Life= -994 days

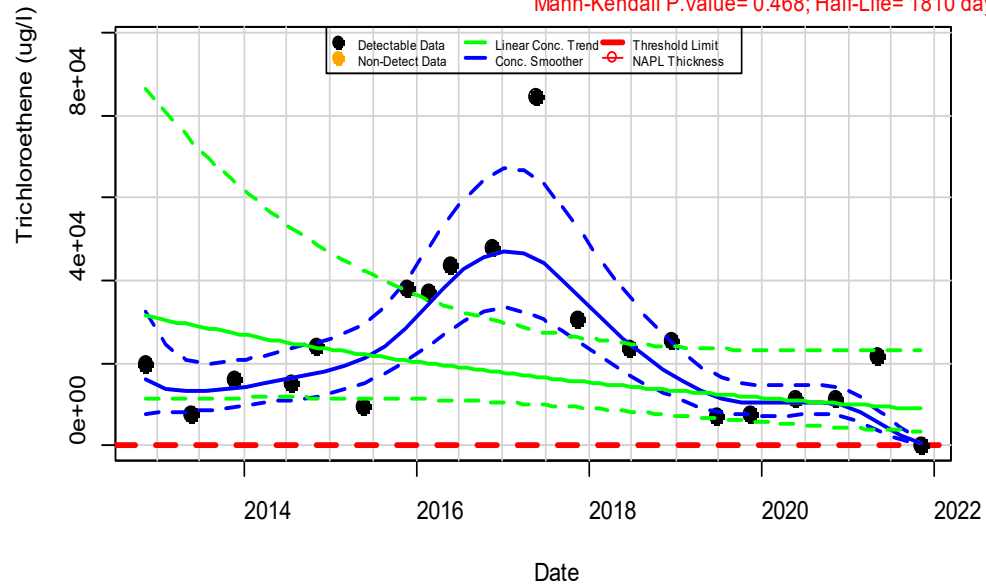


Trichloroethene in PZ-2 : Aquifer-S



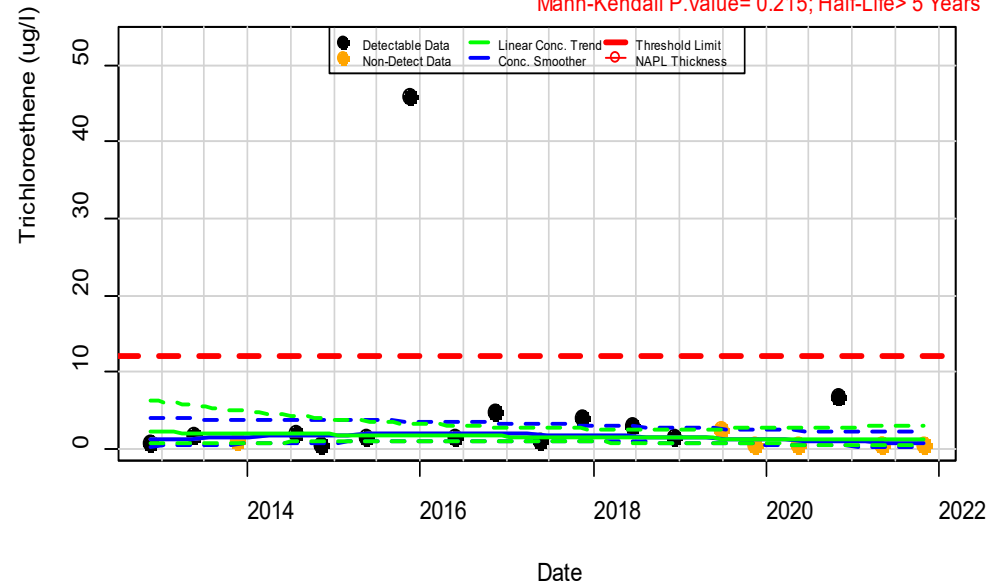
Trichloroethene in PZ-20 : Aquifer-S

Mann-Kendall P.Value= 0.468; Half-Life= 1810 days



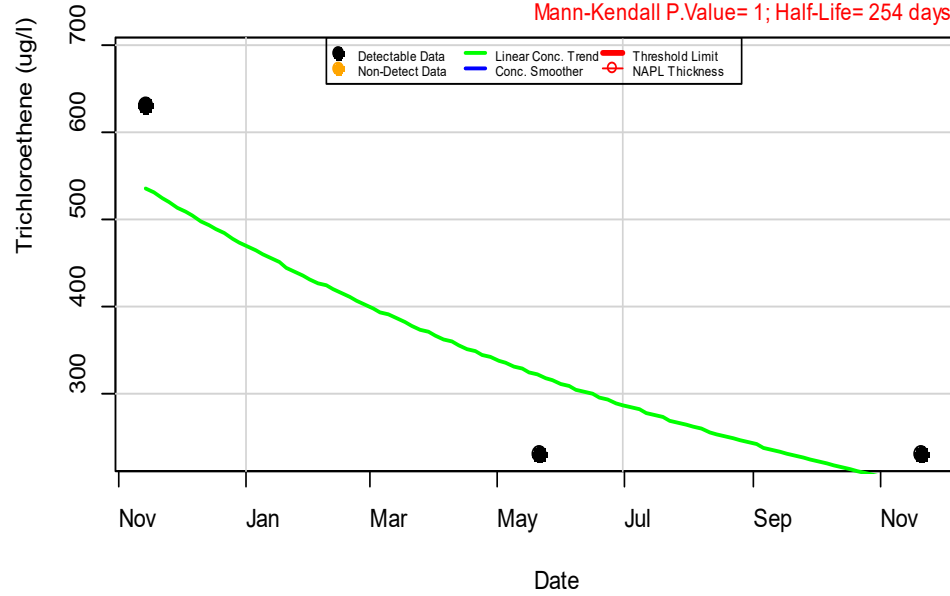
Trichloroethene in PZ-21 : Aquifer-S

Mann-Kendall P.Value= 0.215; Half-Life> 5 Years

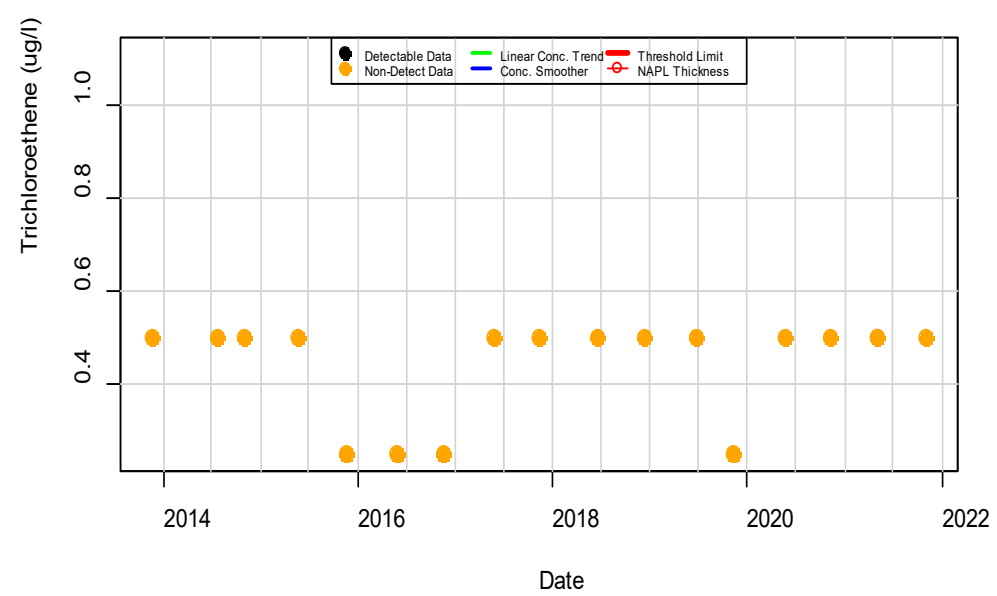


Trichloroethene in PZ-22 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life= 254 days

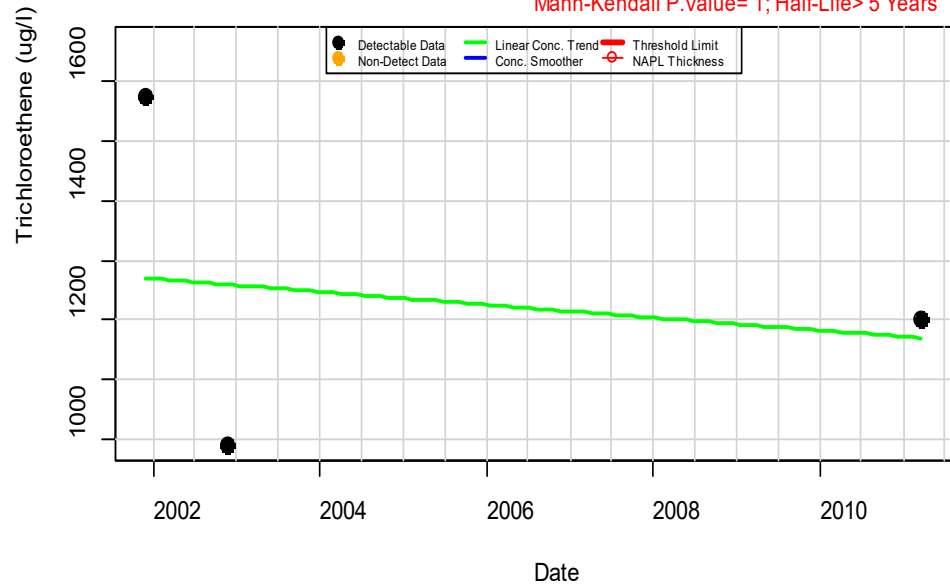


Trichloroethene in PZ-23 : Aquifer-S



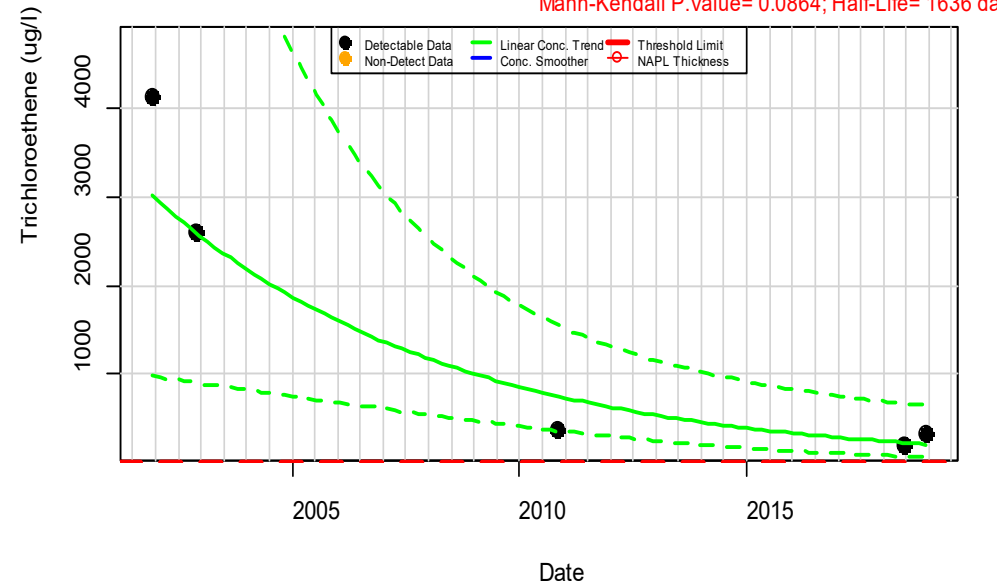
Trichloroethene in PZ-3 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

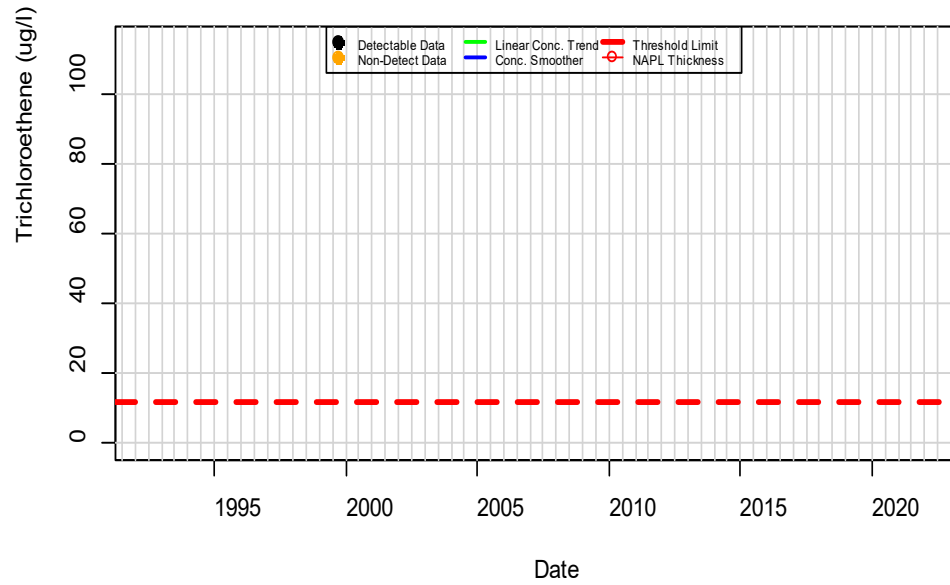


Trichloroethene in PZ-4 : Aquifer-S

Mann-Kendall P.Value= 0.0864; Half-Life= 1636 days

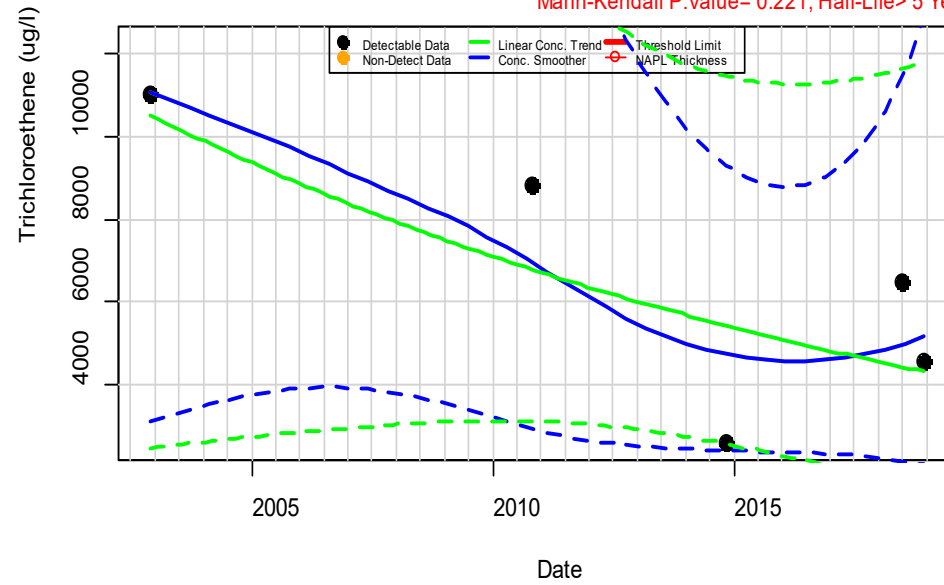


Trichloroethene in PZ-5 : Aquifer-S



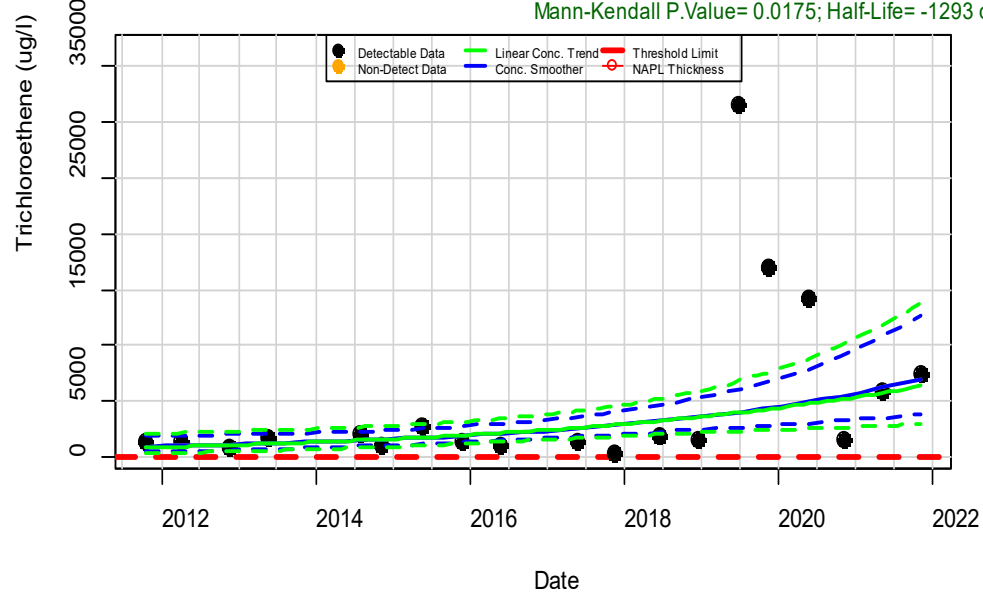
Trichloroethene in PZ-6 : Aquifer-S

Mann-Kendall P.Value= 0.221; Half-Life> 5 Years



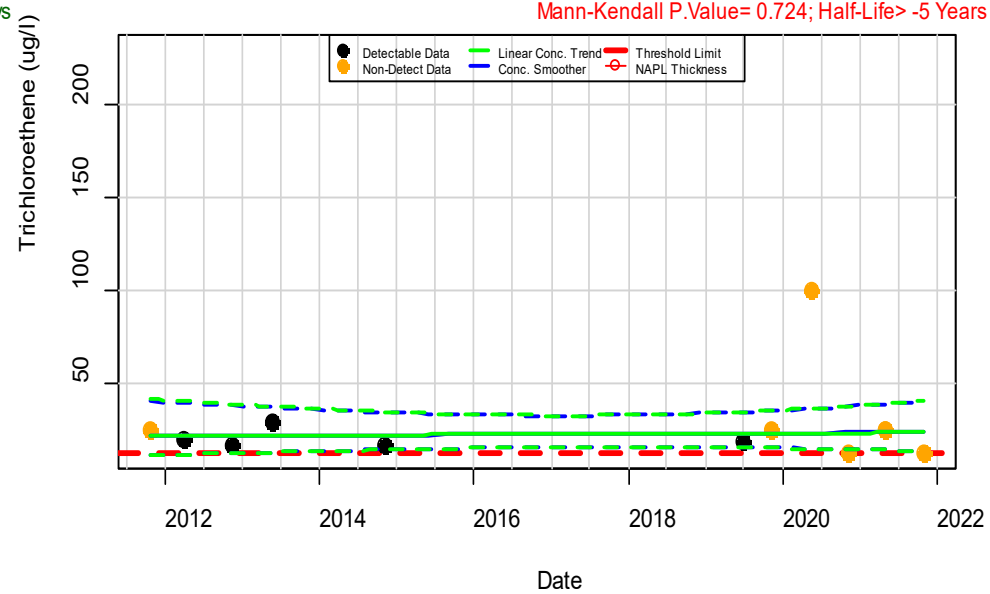
Trichloroethene in RX-01 : Aquifer-S

Mann-Kendall P.Value= 0.0175; Half-Life= -1293 days



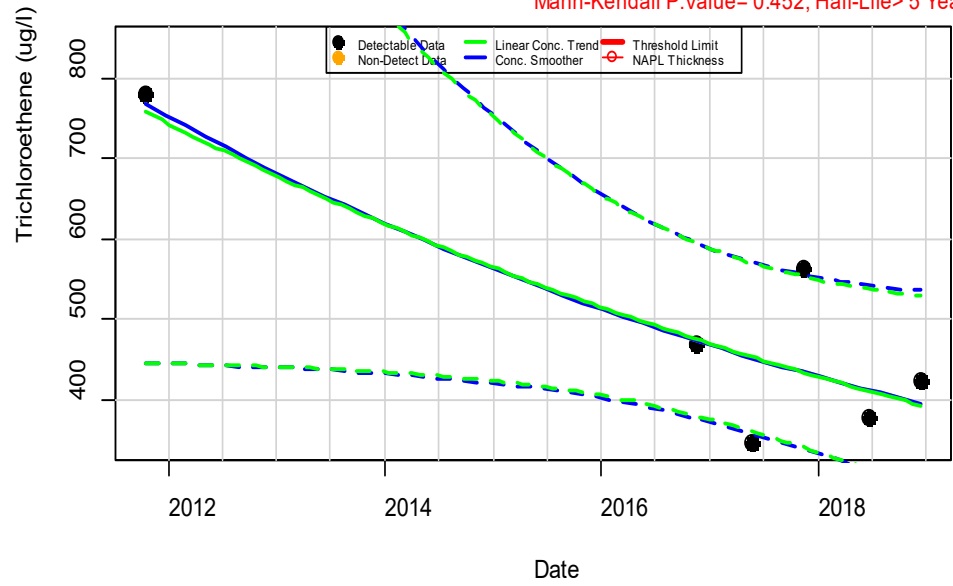
Trichloroethene in RX-03 : Aquifer-S

Mann-Kendall P.Value= 0.724; Half-Life> -5 Years



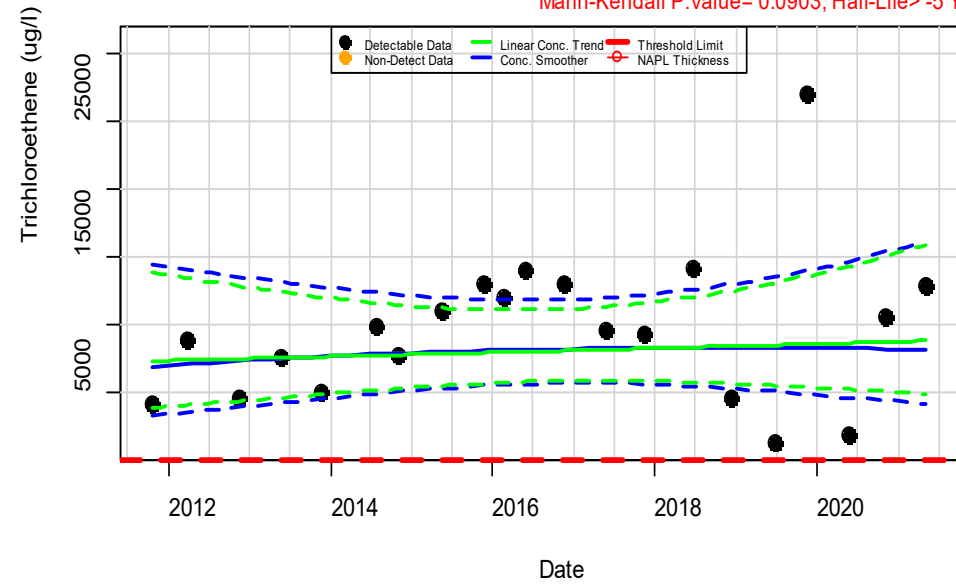
Trichloroethene in RX-04 : Aquifer-S

Mann-Kendall P.Value= 0.452; Half-Life> 5 Years

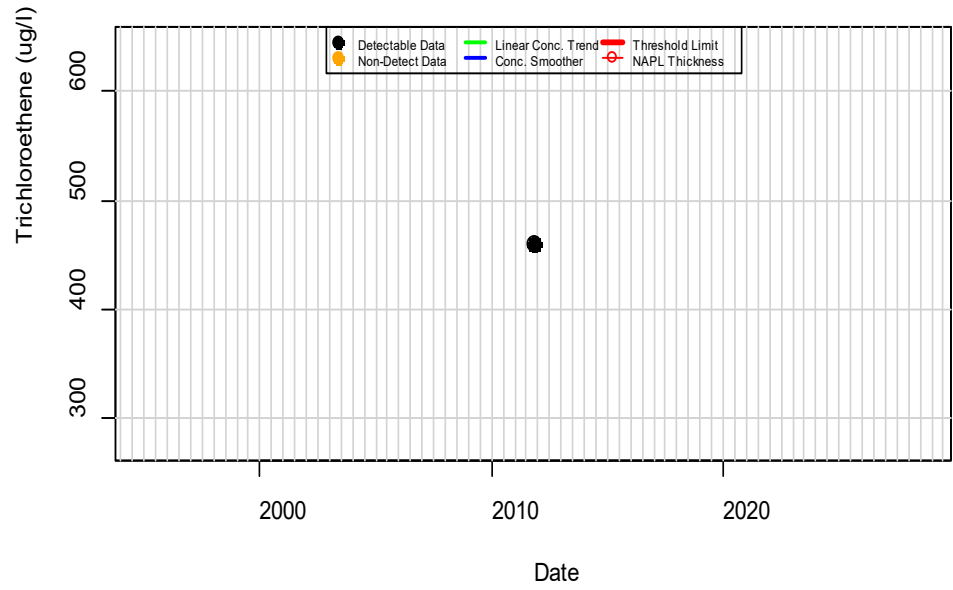


Trichloroethene in RX-05 : Aquifer-S

Mann-Kendall P.Value= 0.0903; Half-Life> -5 Years

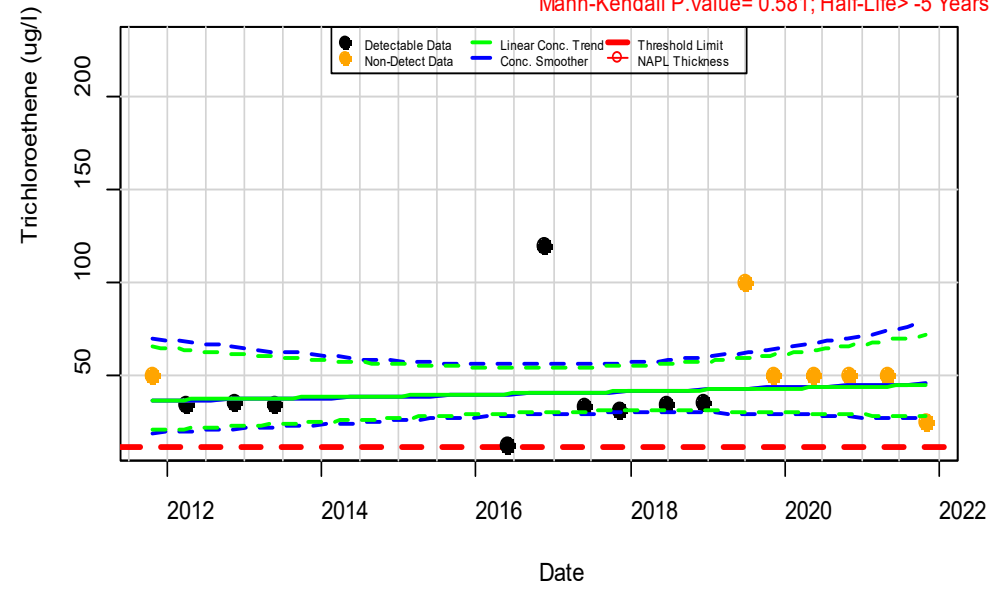


Trichloroethene in RX-06 : Aquifer-S



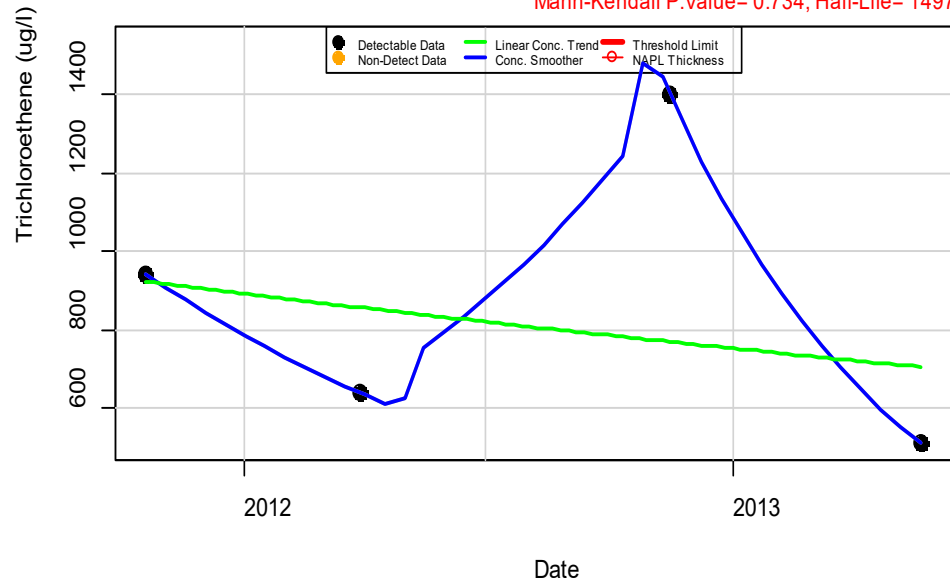
Trichloroethene in RX-07 : Aquifer-S

Mann-Kendall P.Value= 0.581; Half-Life> -5 Years



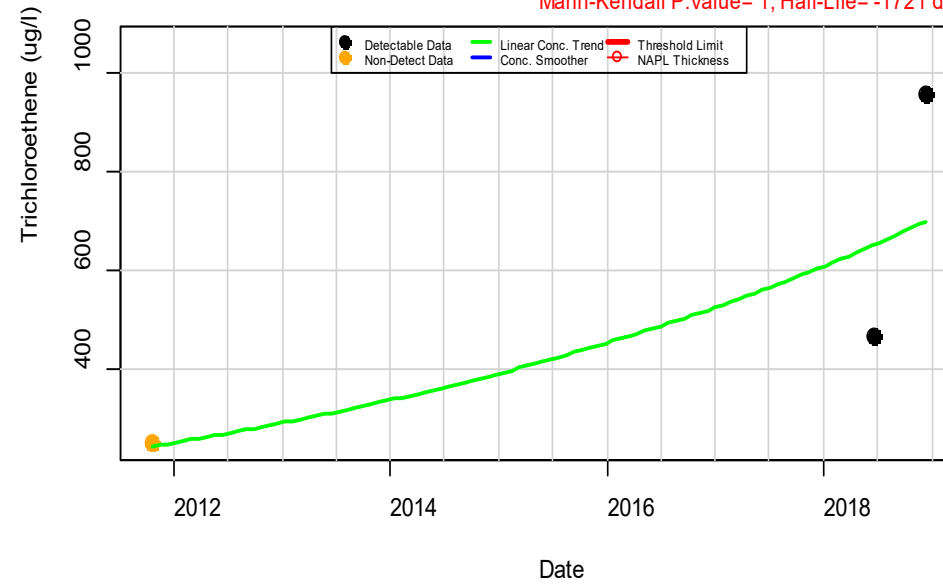
Trichloroethene in RX-08 : Aquifer-S

Mann-Kendall P.Value= 0.734; Half-Life= 1497 days



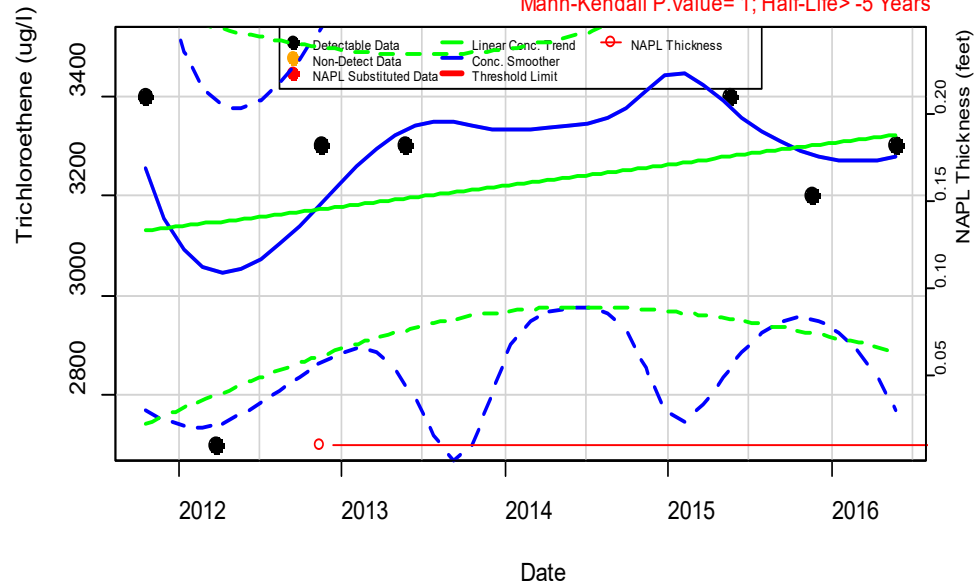
Trichloroethene in RX-09 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life= -1721 days

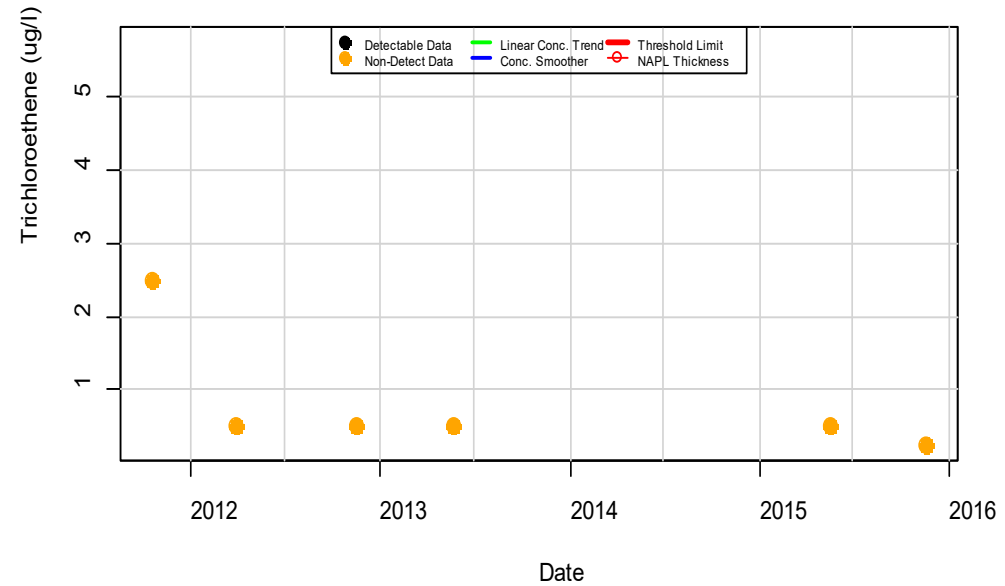


Trichloroethene in RX-10 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> -5 Years

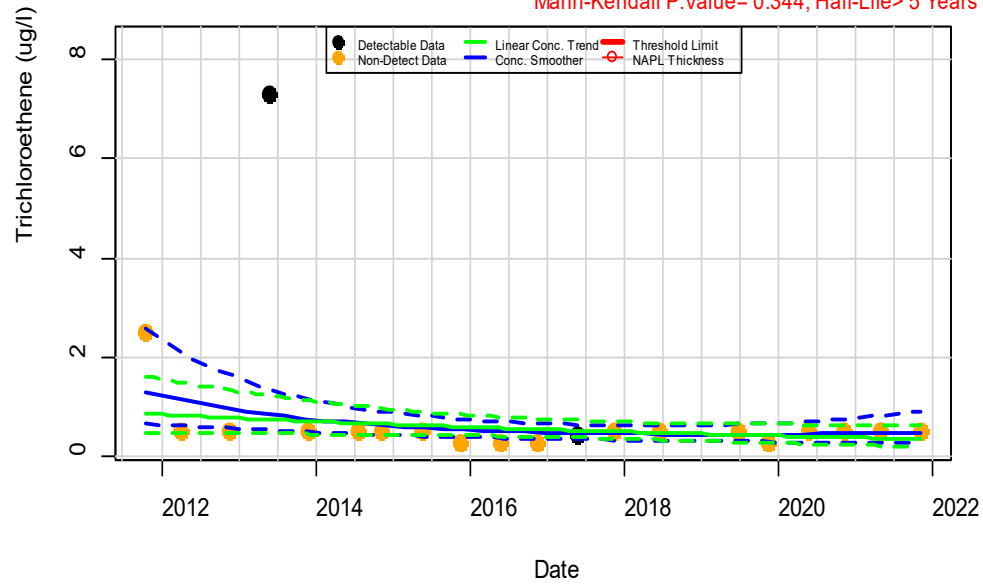


Trichloroethene in RX-11 : Aquifer-S



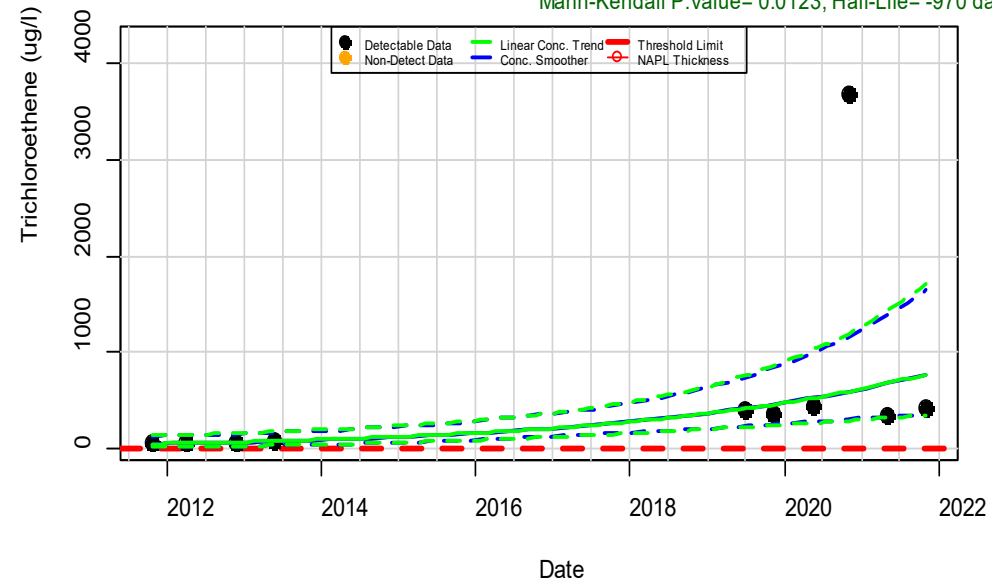
Trichloroethene in RX-12 : Aquifer-S

Mann-Kendall P.Value= 0.344; Half-Life> 5 Years



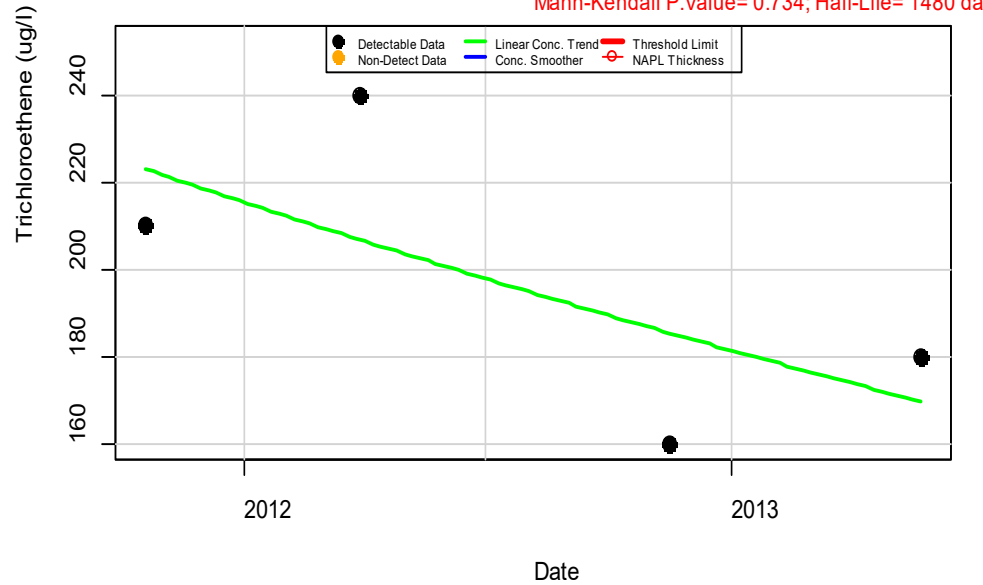
Trichloroethene in RX-13 : Aquifer-S

Mann-Kendall P.Value= 0.0123; Half-Life= -970 days

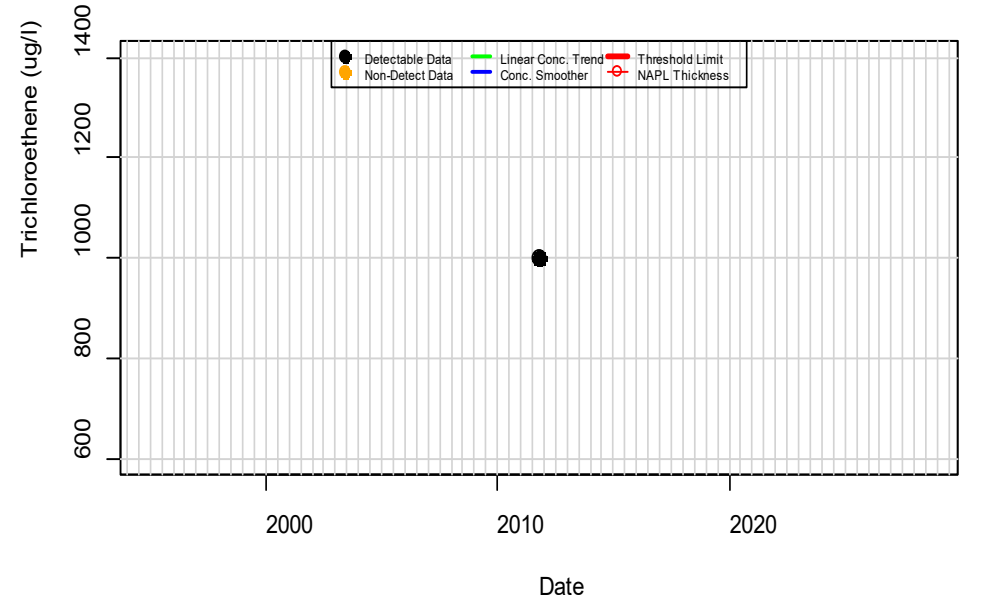


Trichloroethene in RX-14 : Aquifer-S

Mann-Kendall P.Value= 0.734; Half-Life= 1480 days

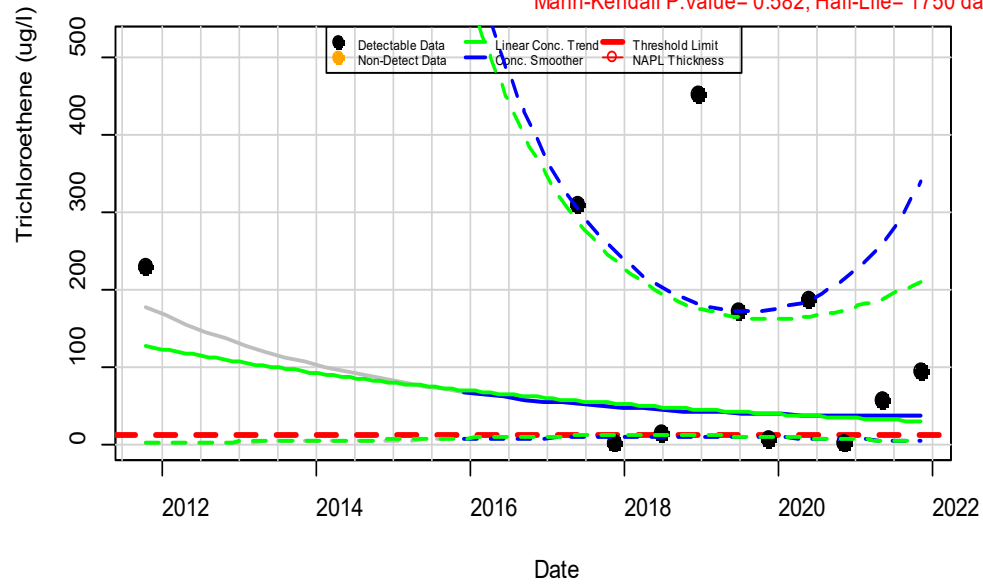


Trichloroethene in RX-17 : Aquifer-S



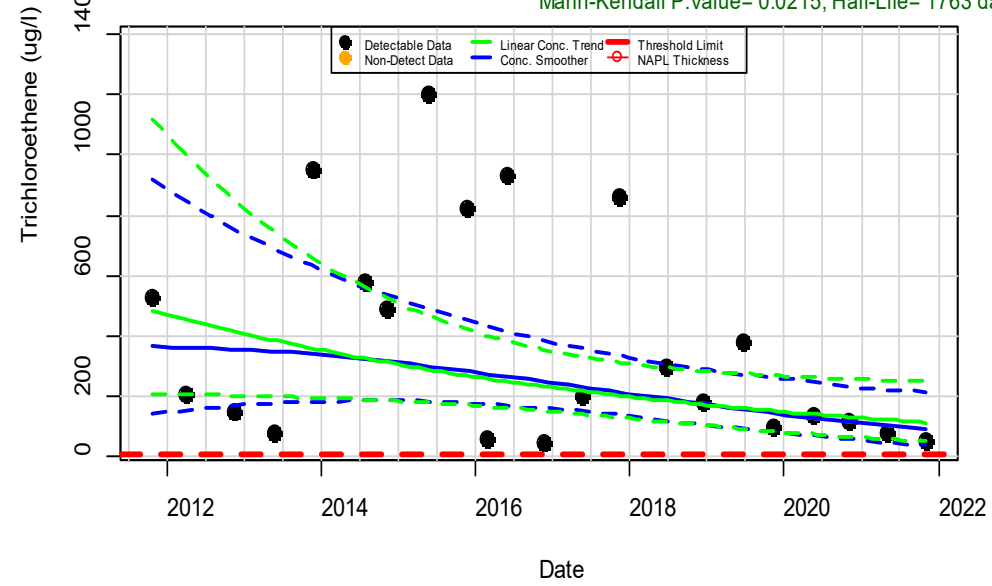
Trichloroethene in RX-19 : Aquifer-S

Mann-Kendall P.Value= 0.582; Half-Life= 1750 days

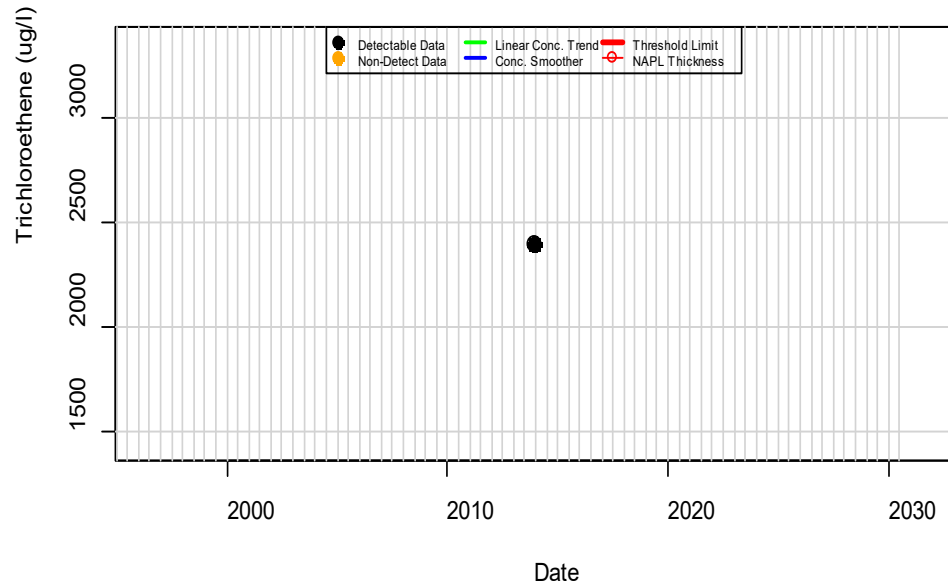


Trichloroethene in RX-20 : Aquifer-S

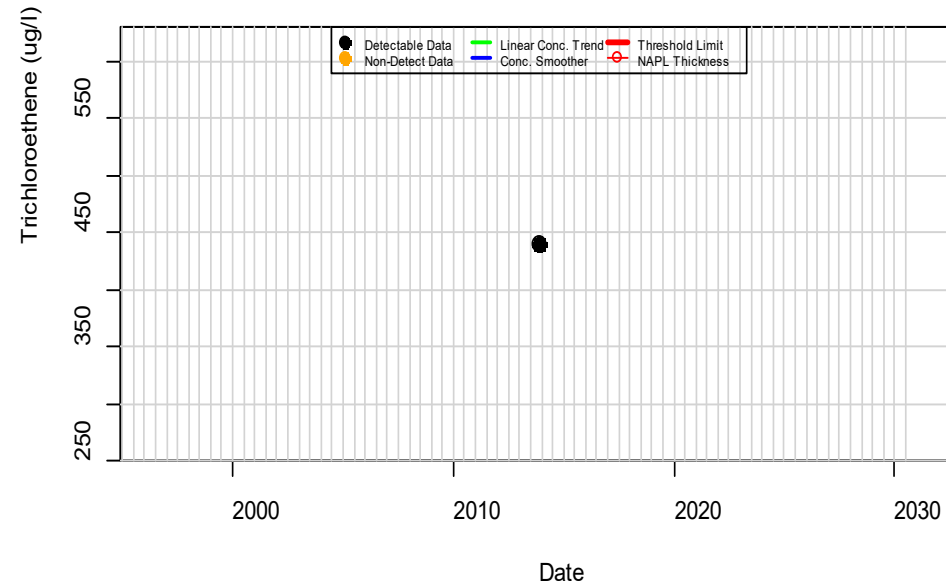
Mann-Kendall P.Value= 0.0215; Half-Life= 1763 days



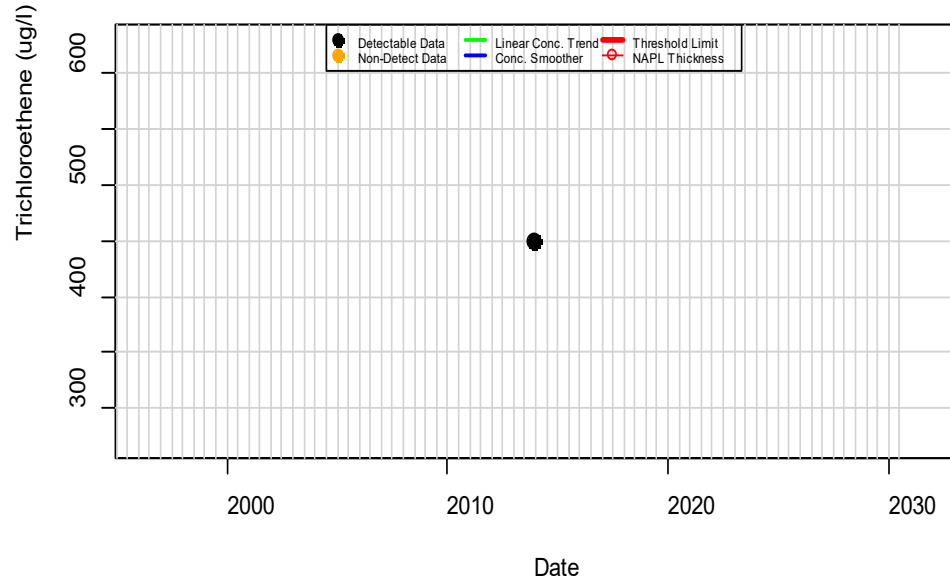
Trichloroethene in TWP-01 : Aquifer-S



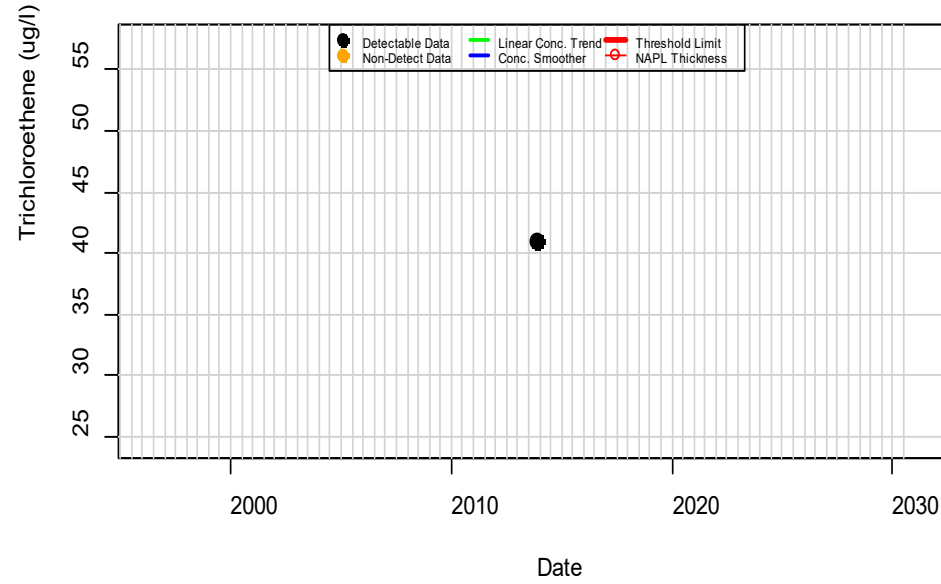
Trichloroethene in TWP-02 : Aquifer-S



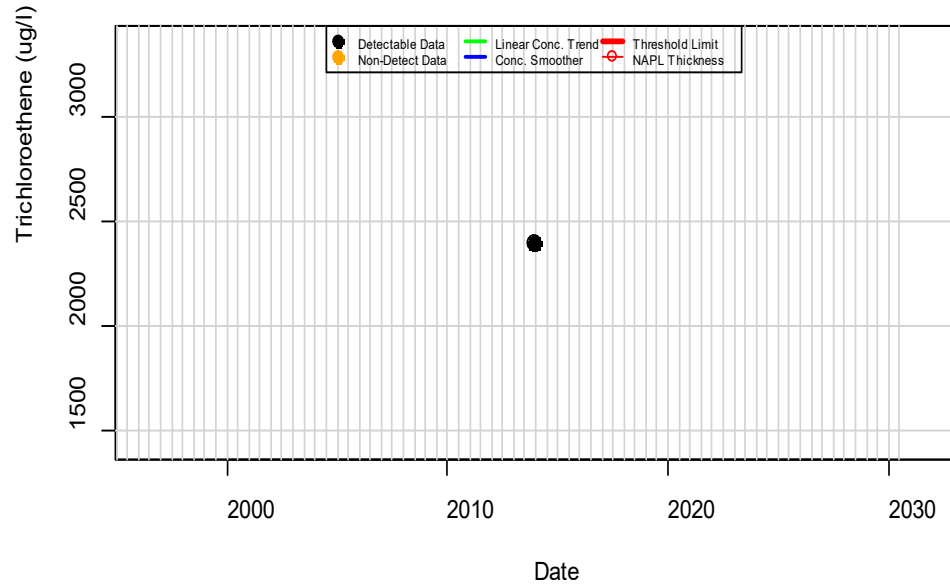
Trichloroethene in TWP-03 : Aquifer-S



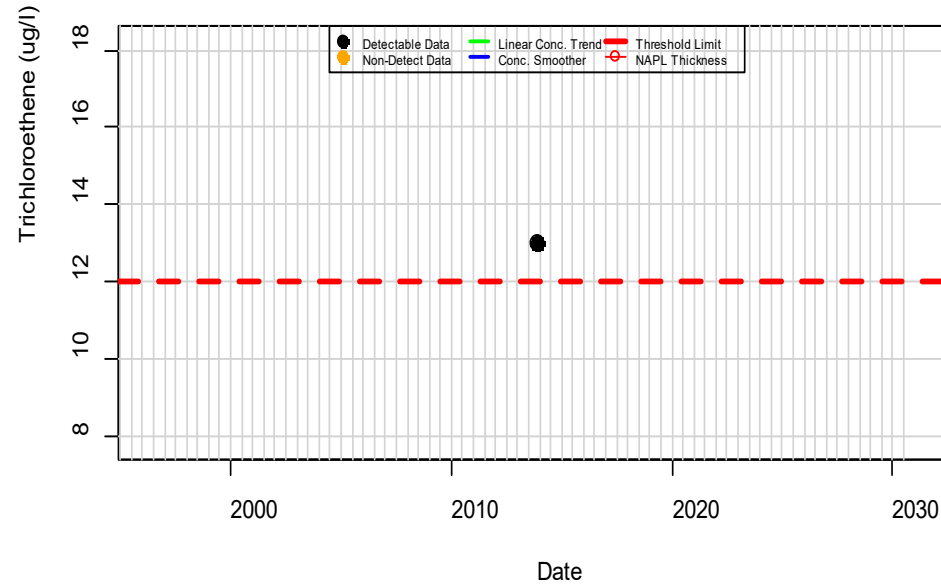
Trichloroethene in TWP-04 : Aquifer-S



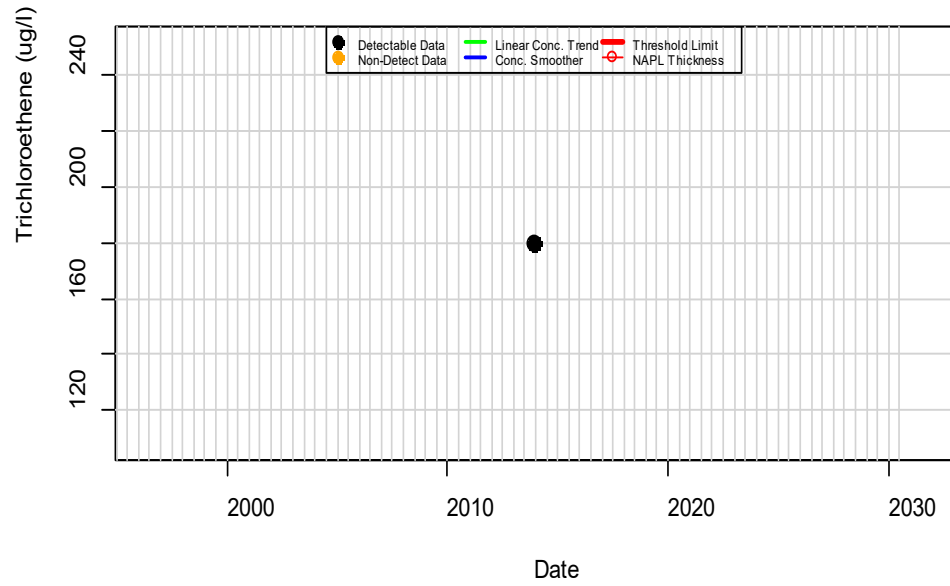
Trichloroethene in TWP-05 : Aquifer-S



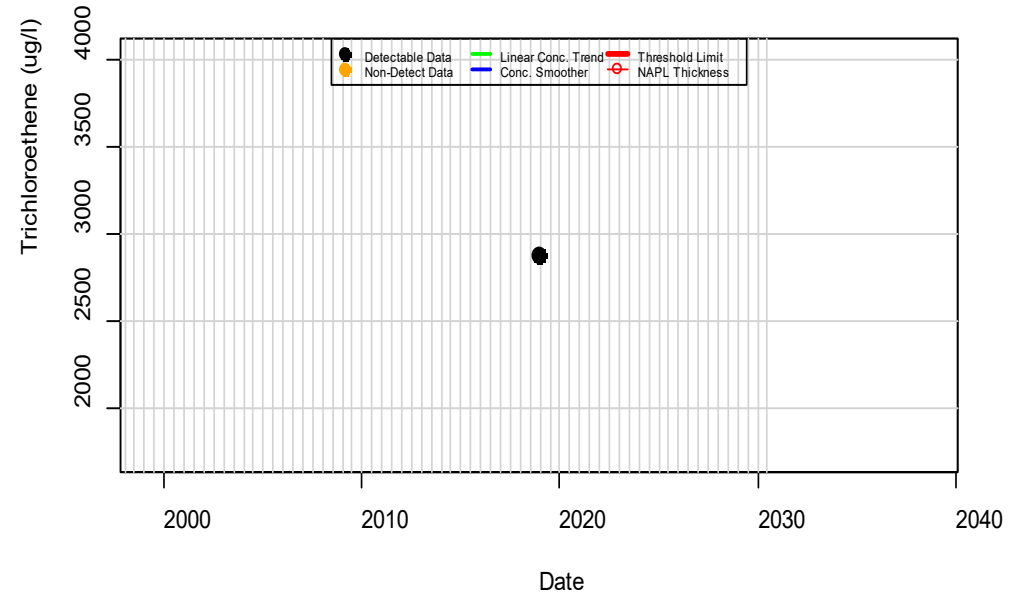
Trichloroethene in TWP-06 : Aquifer-S



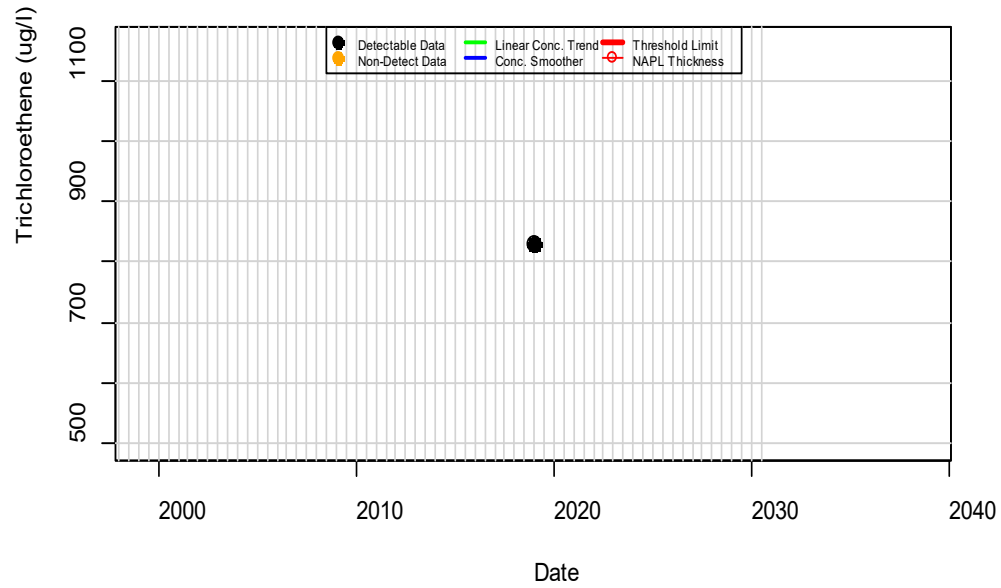
Trichloroethene in TWP-07 : Aquifer-S



Trichloroethene in TWP-27 : Aquifer-S



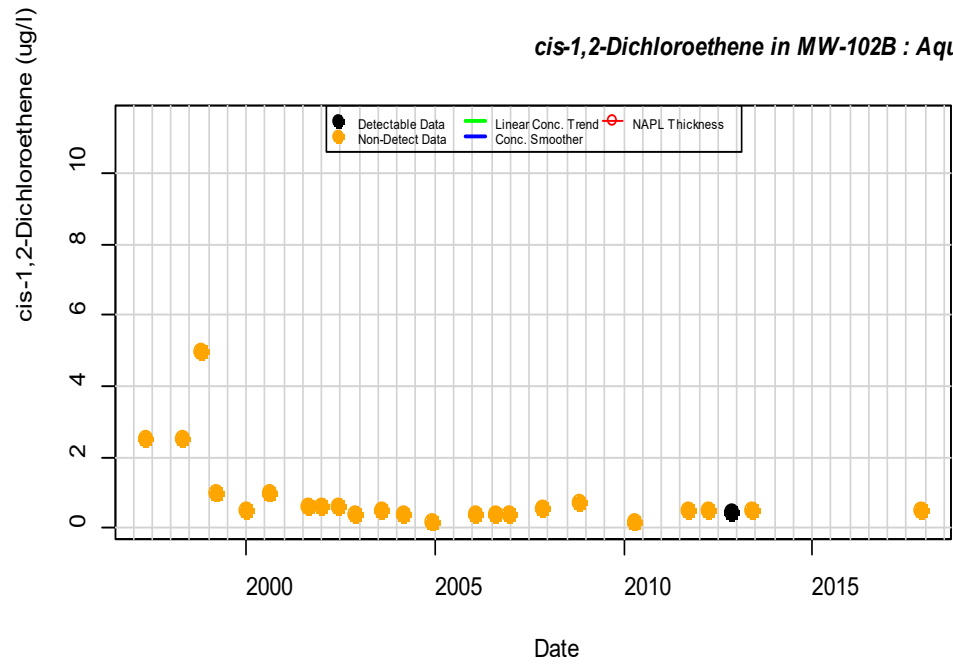
Trichloroethene in TWP-28 : Aquifer-S



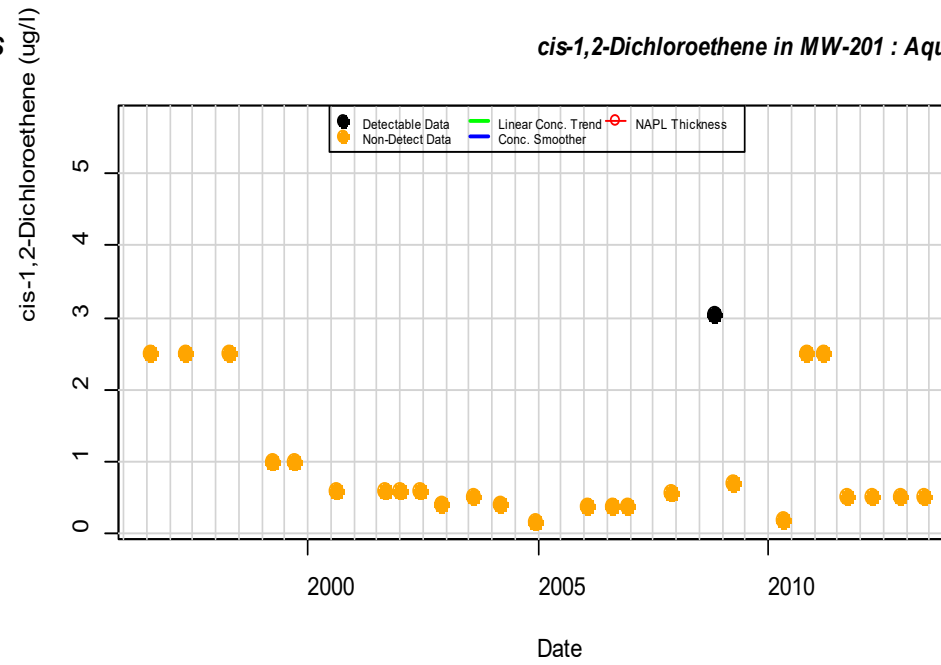
Cis-1,2-Dichloroethene

3,700 ug/L Threshold

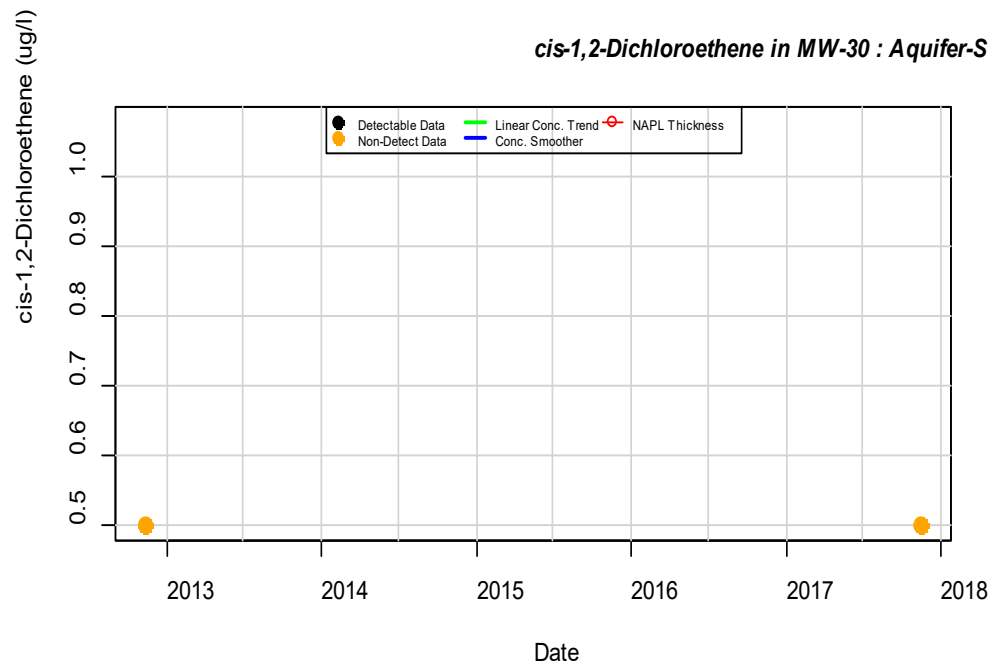
cis-1,2-Dichloroethene in MW-102B : Aquifer-S



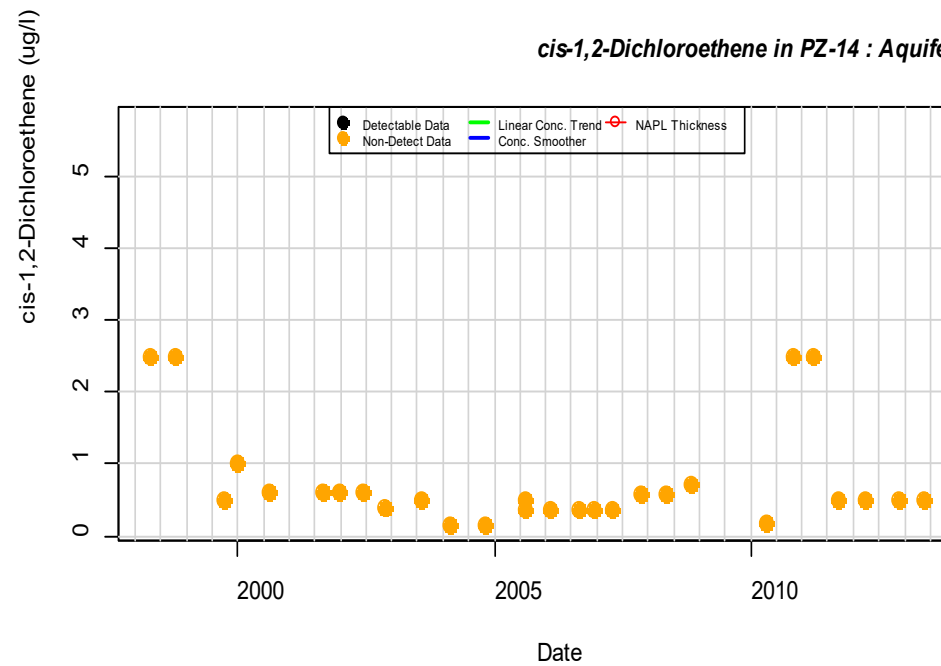
cis-1,2-Dichloroethene in MW-201 : Aquifer-S



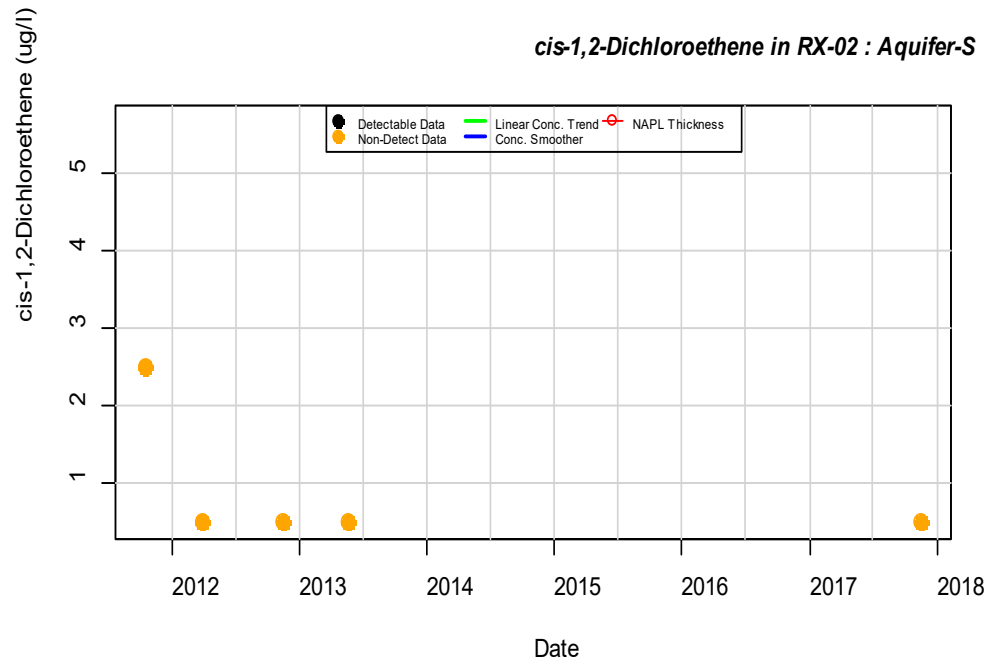
cis-1,2-Dichloroethene in MW-30 : Aquifer-S

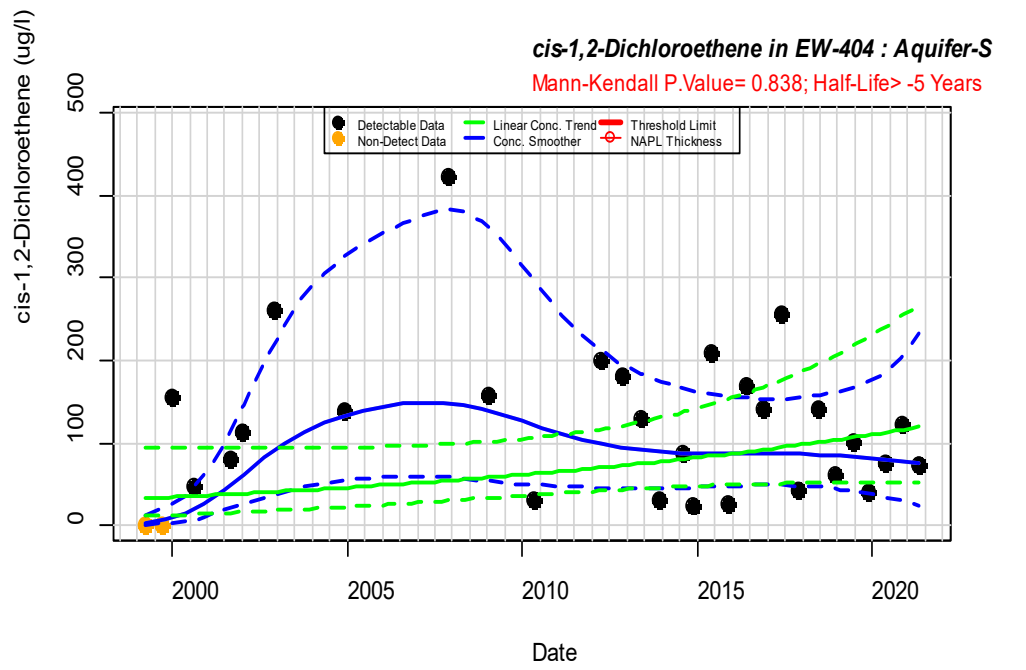
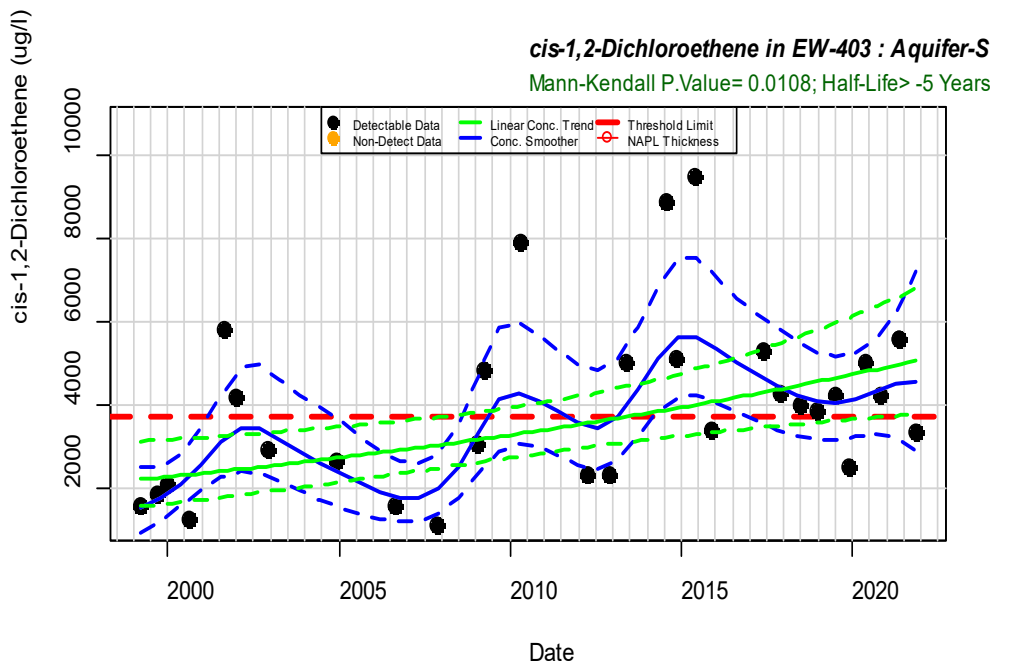
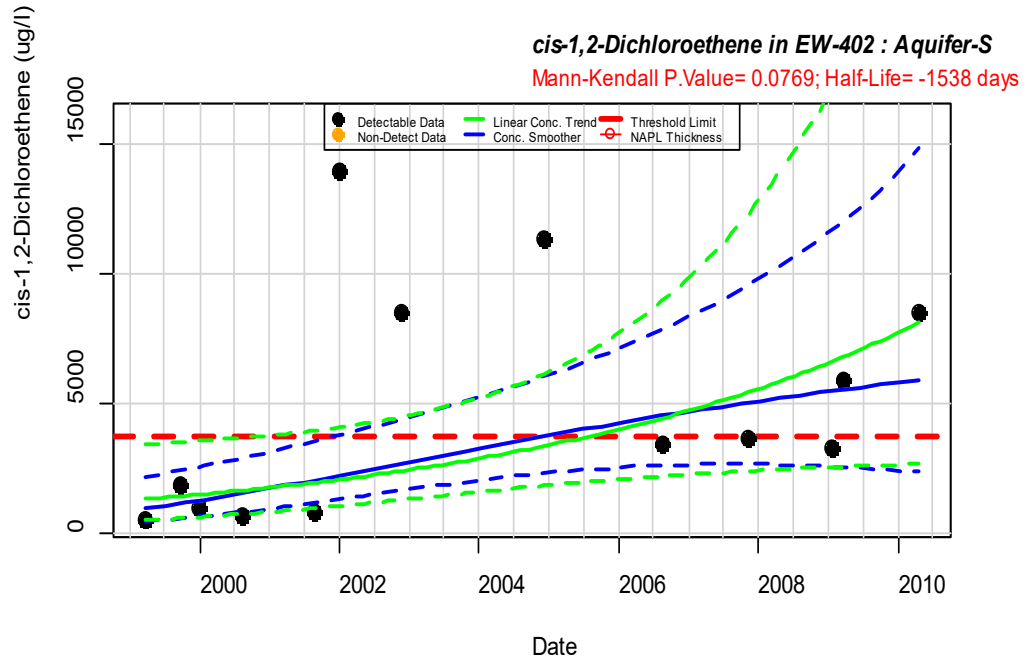
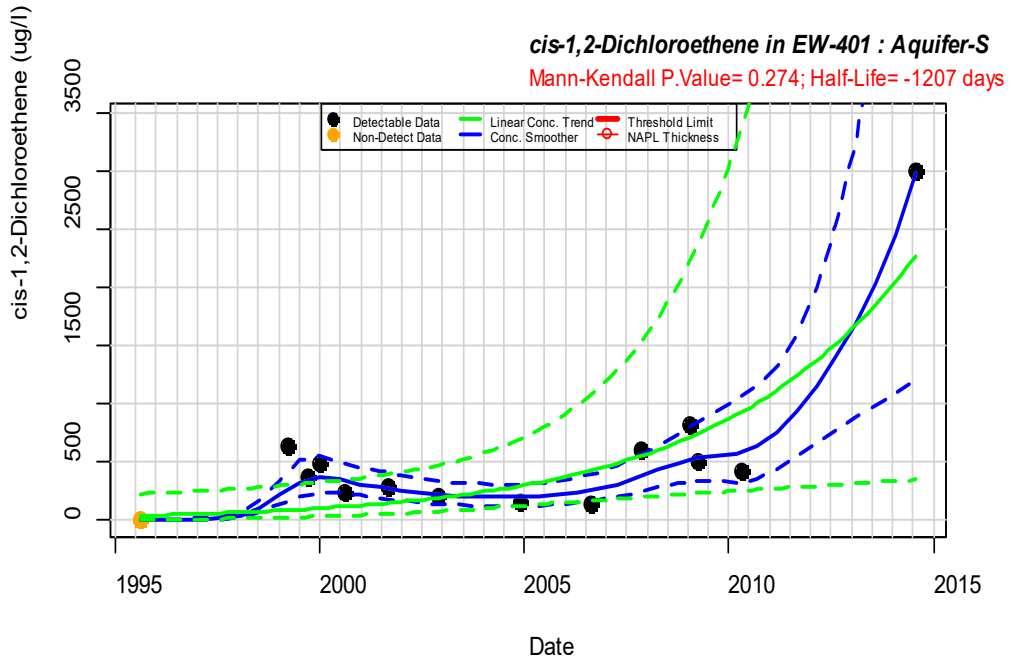


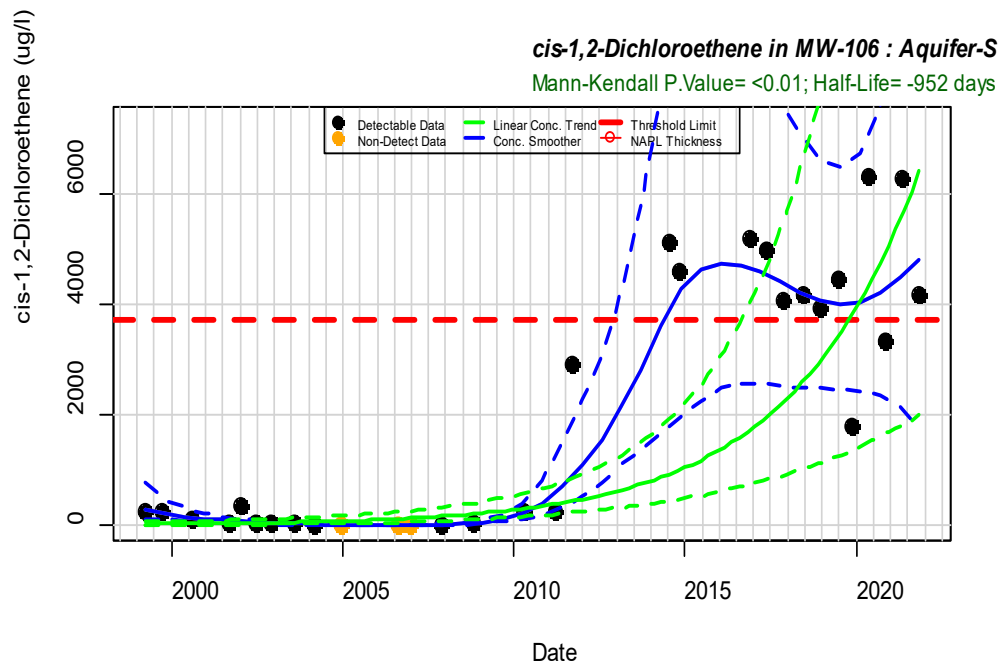
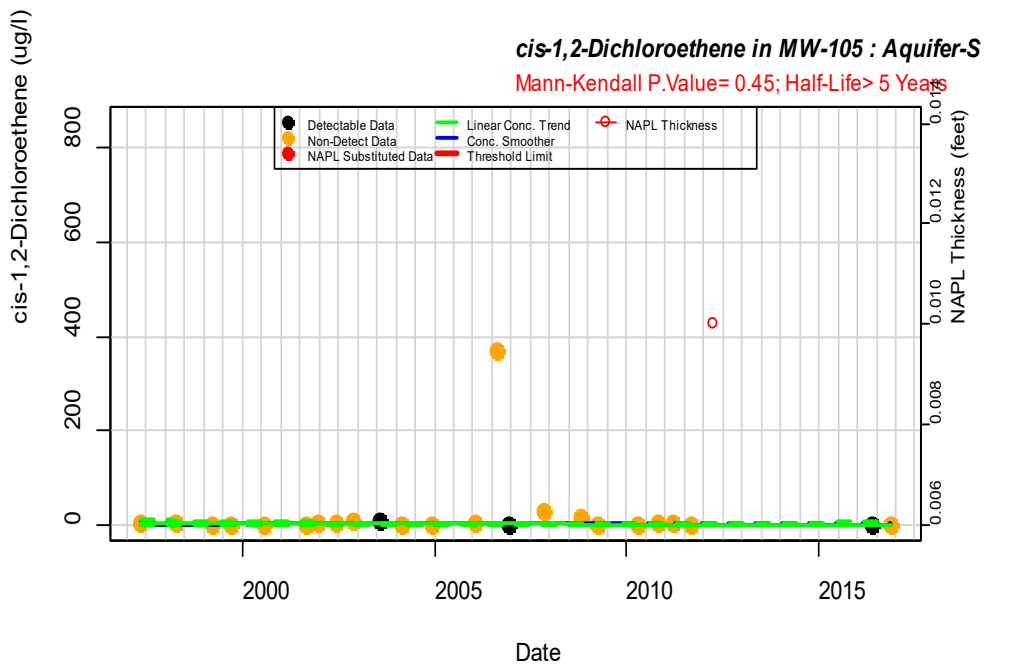
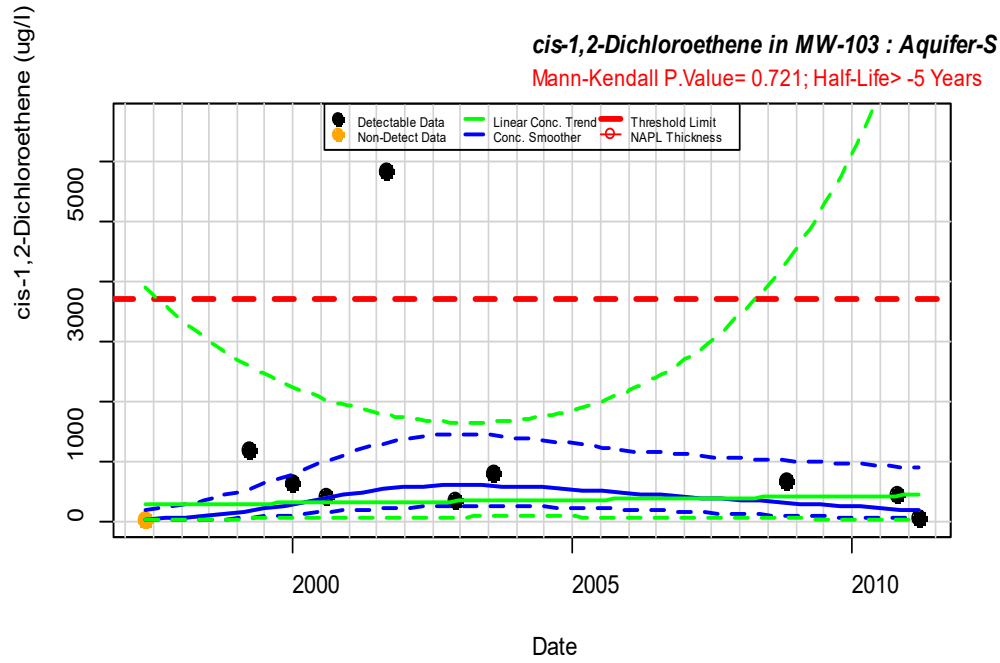
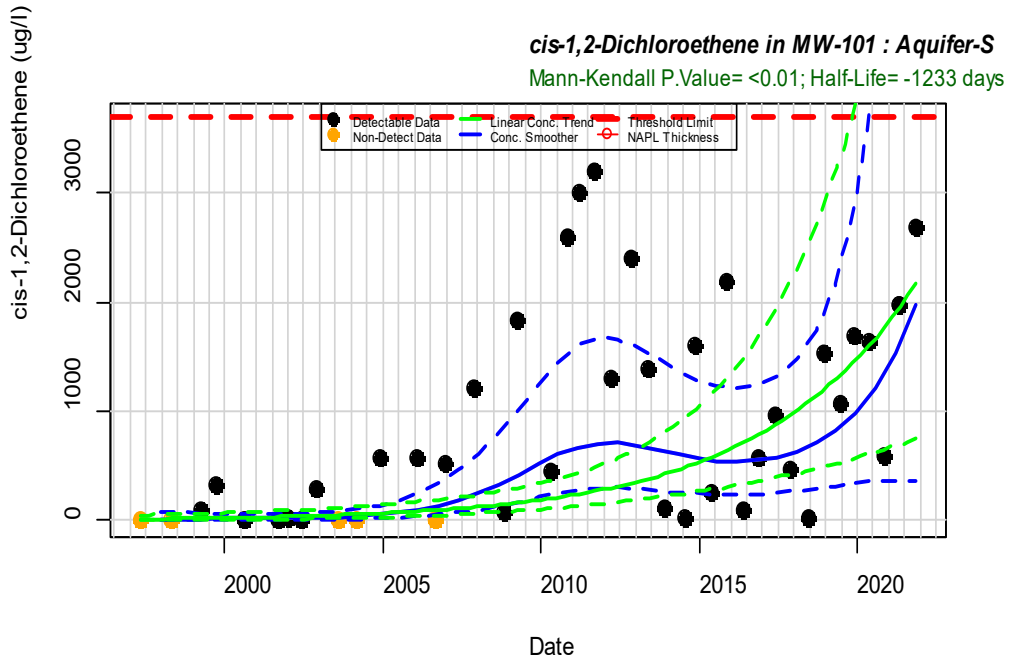
cis-1,2-Dichloroethene in PZ-14 : Aquifer-S

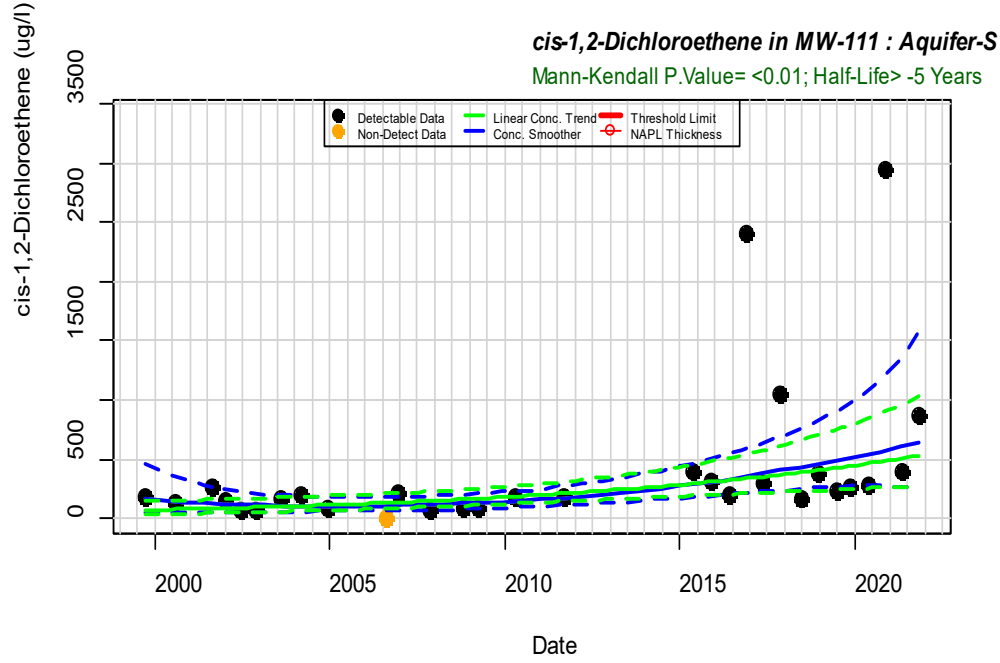
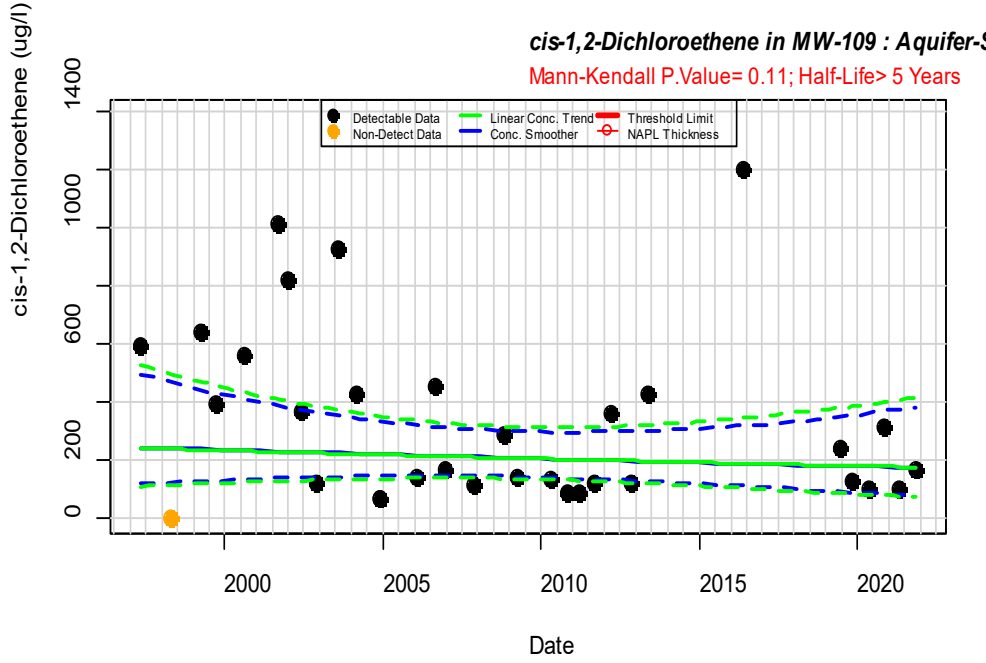
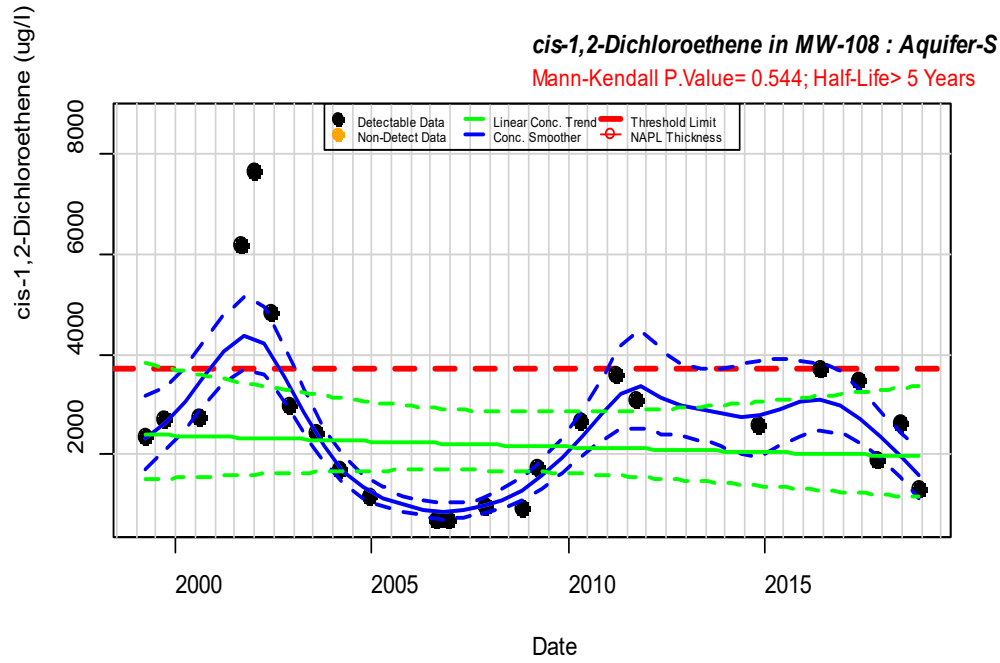
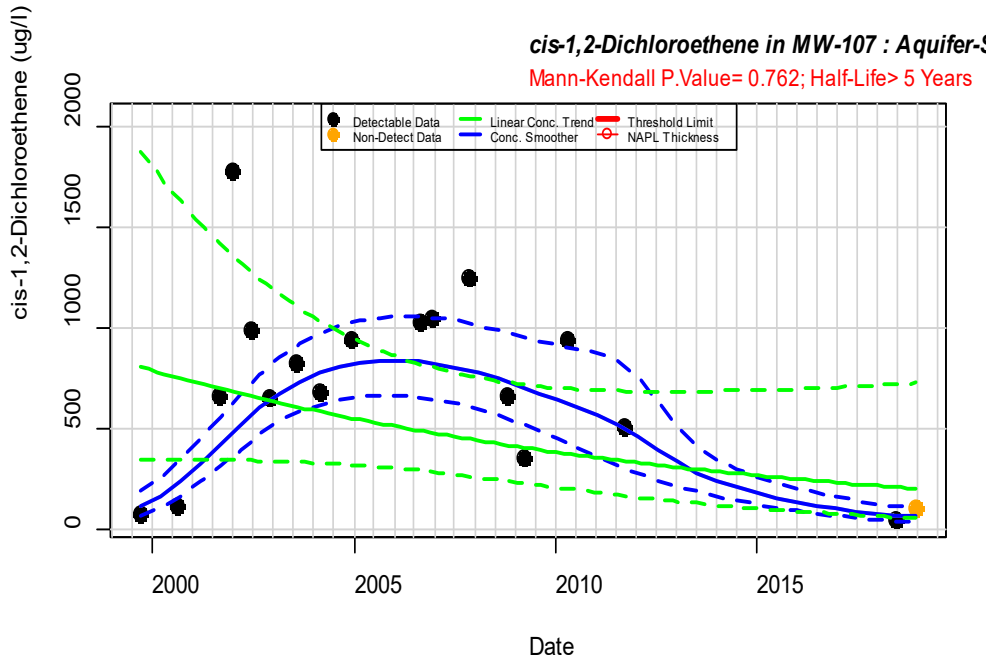


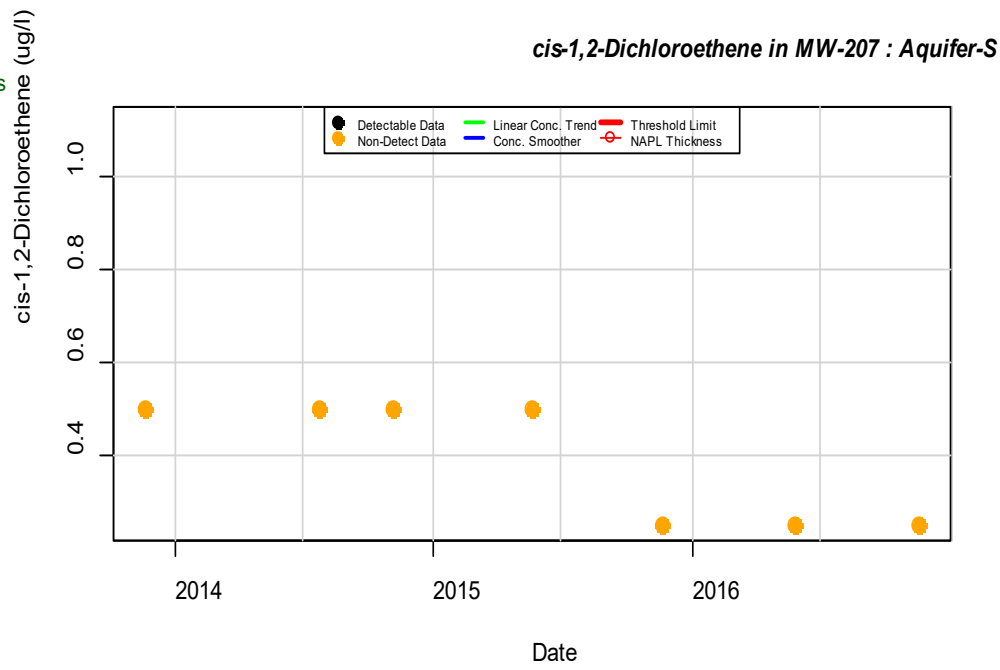
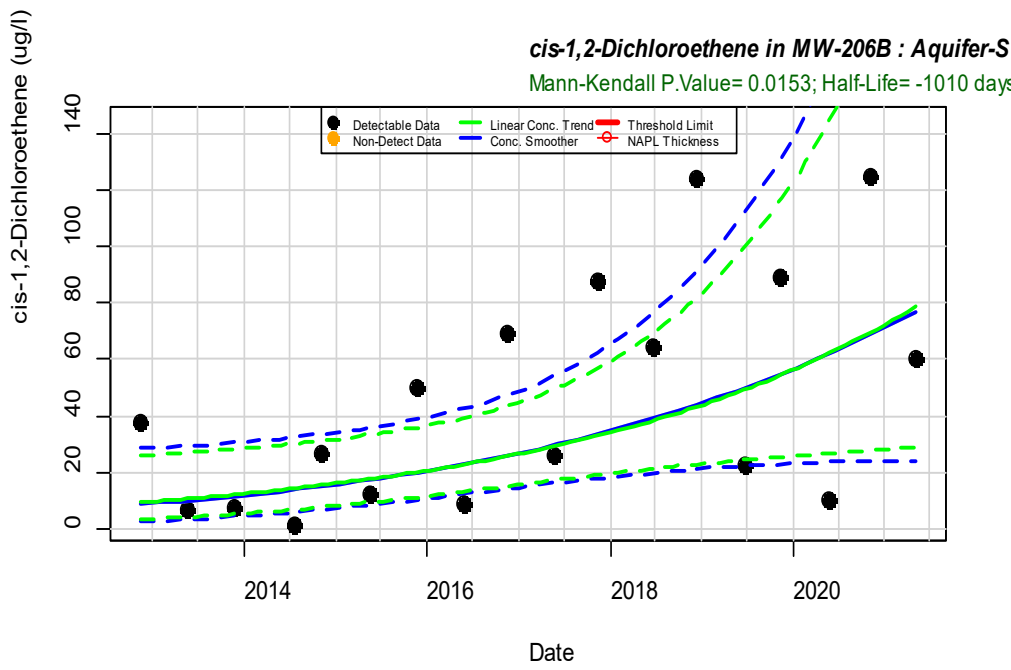
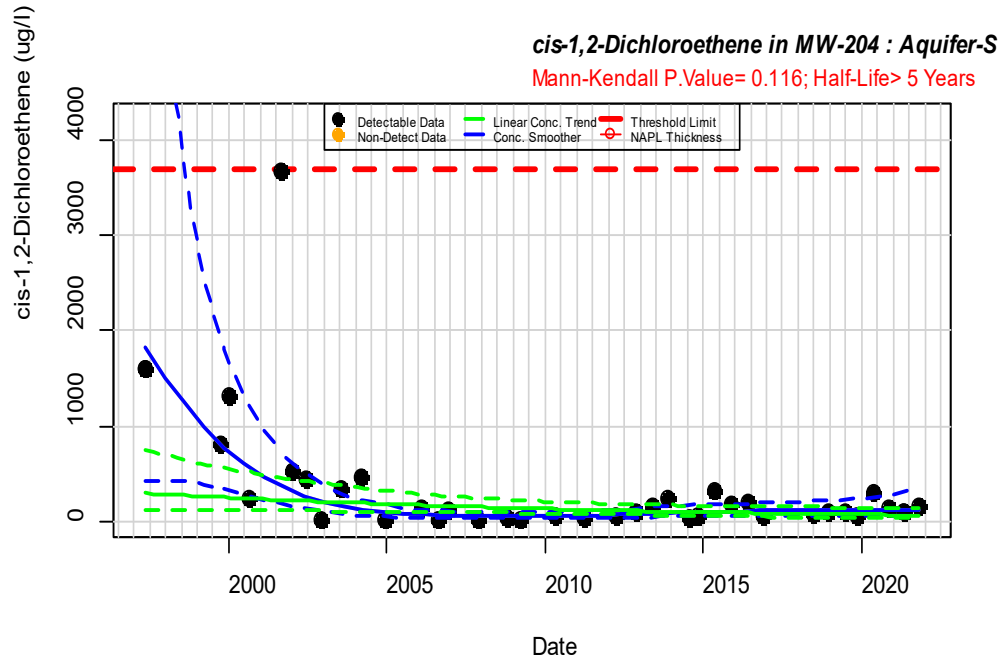
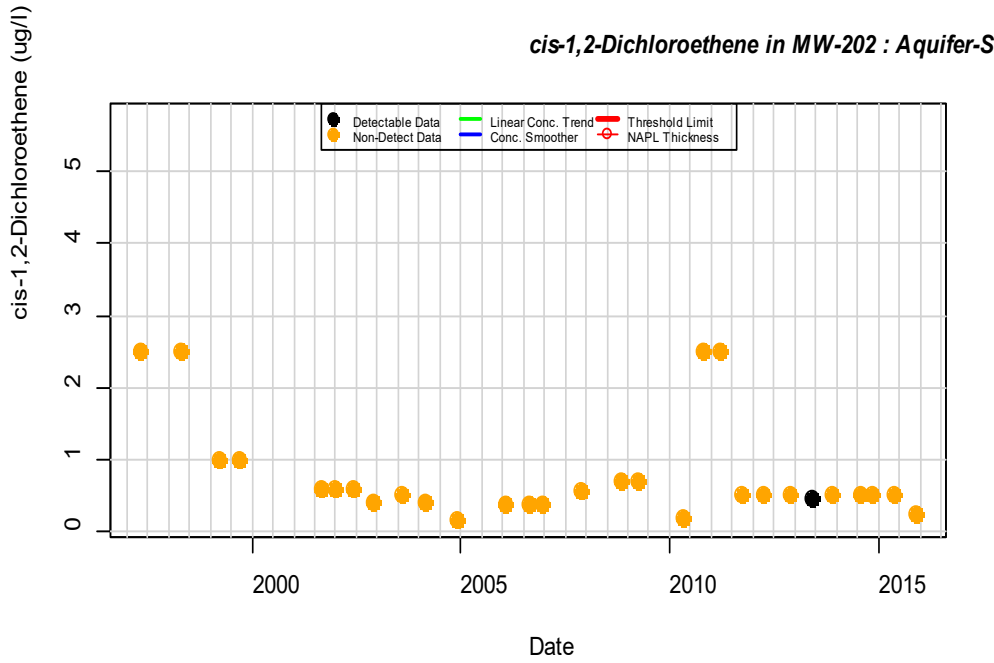
cis-1,2-Dichloroethene in RX-02 : Aquifer-S



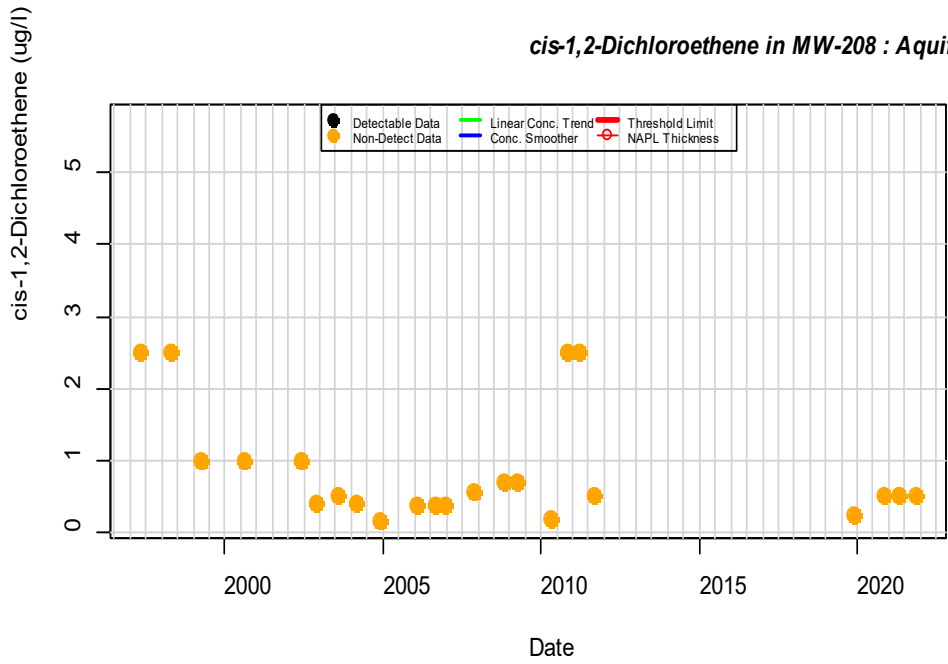




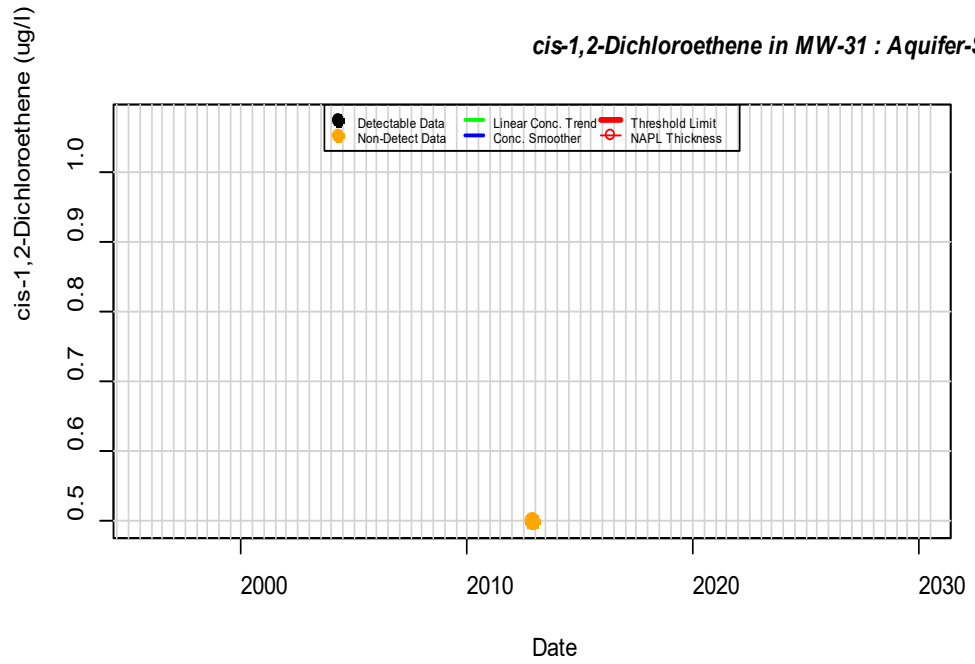




cis-1,2-Dichloroethene in MW-208 : Aquifer-S

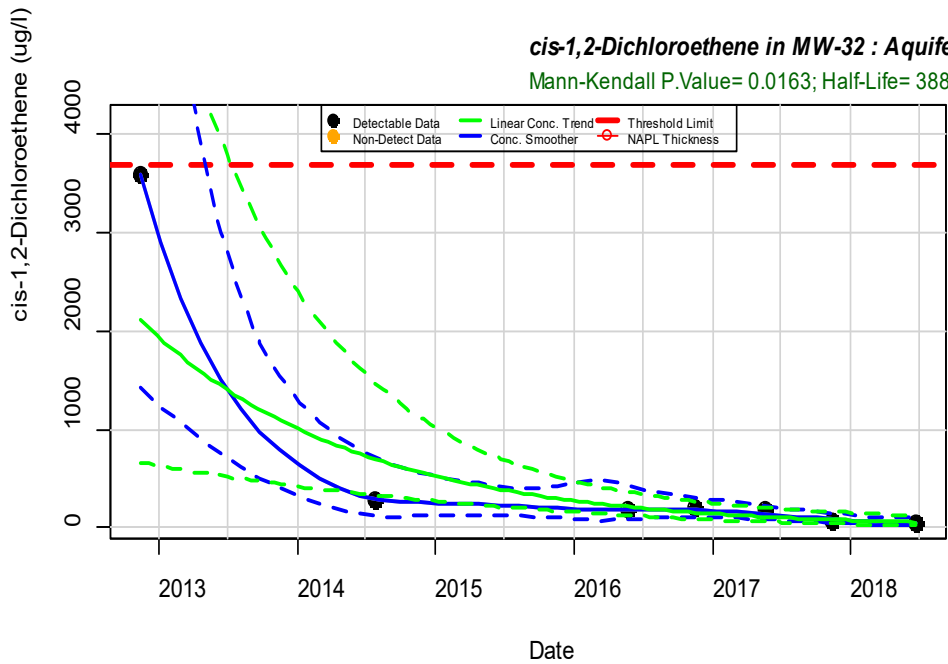


cis-1,2-Dichloroethene in MW-31 : Aquifer-S



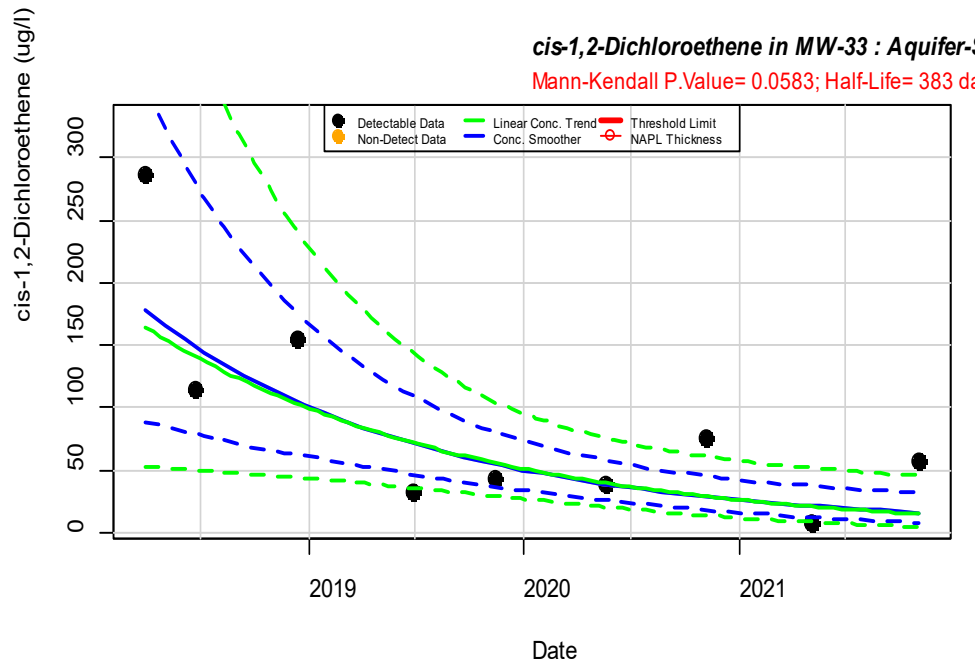
cis-1,2-Dichloroethene in MW-32 : Aquifer-S

Mann-Kendall P.Value= 0.0163; Half-Life= 388 days

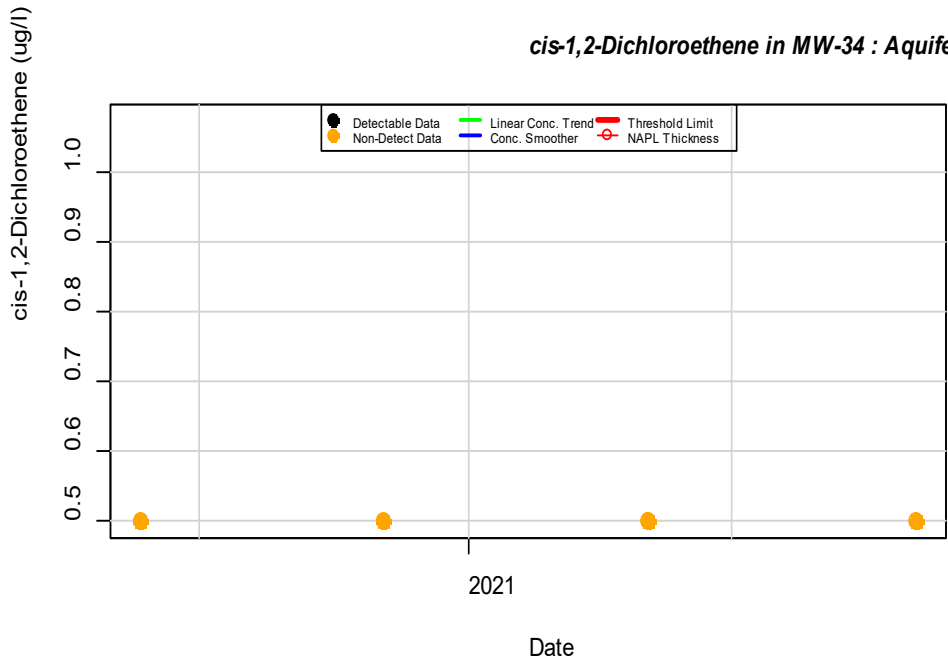


cis-1,2-Dichloroethene in MW-33 : Aquifer-S

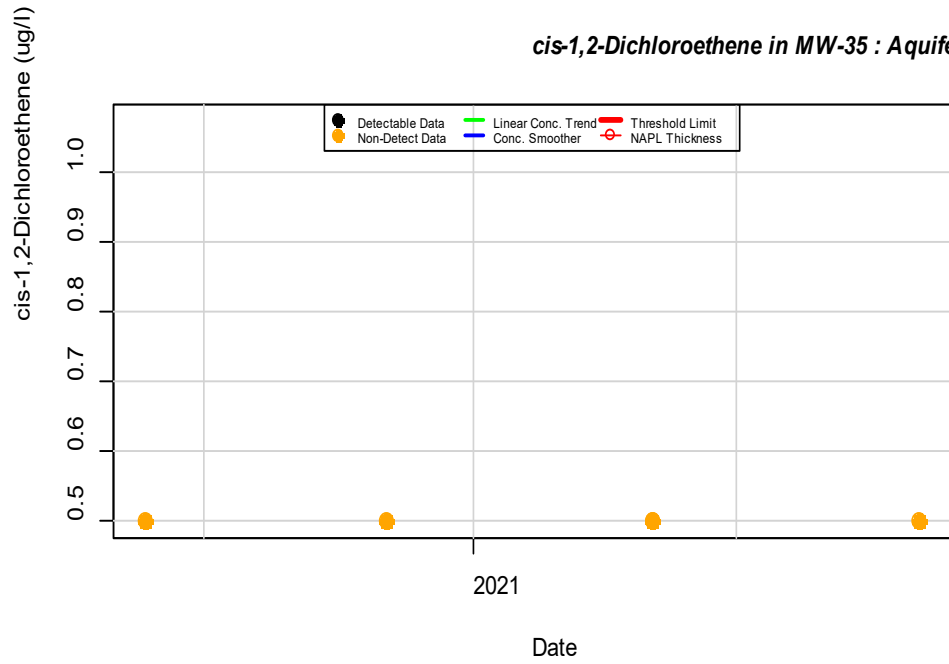
Mann-Kendall P.Value= 0.0583; Half-Life= 383 days



cis-1,2-Dichloroethene in MW-34 : Aquifer-S

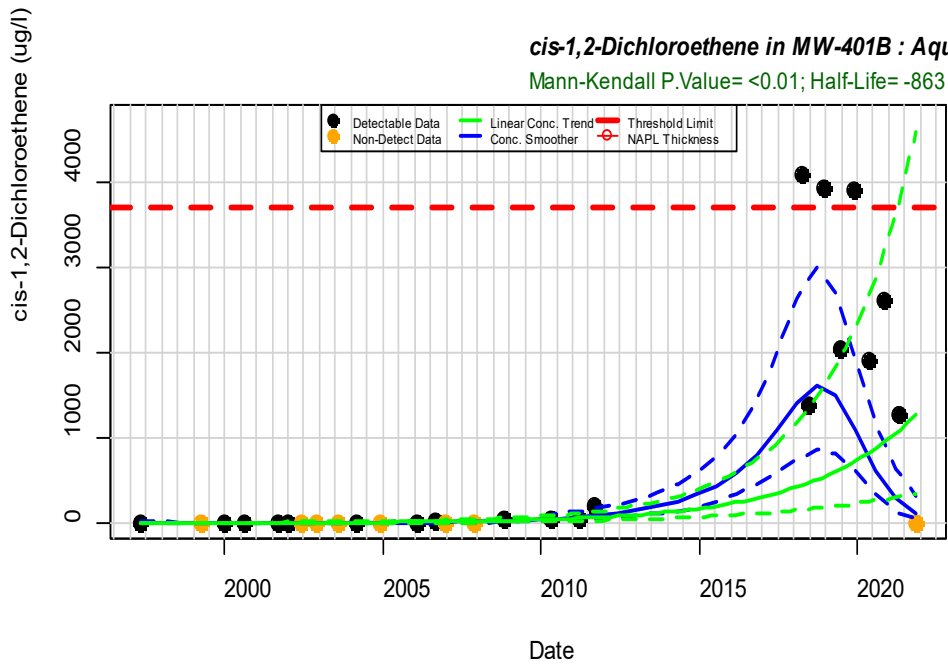


cis-1,2-Dichloroethene in MW-35 : Aquifer-S



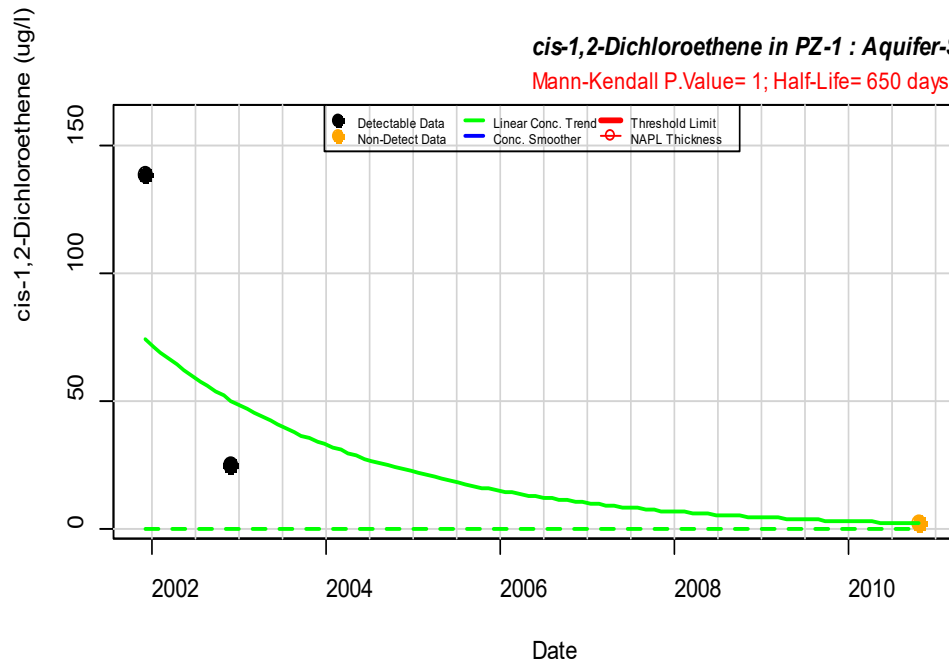
cis-1,2-Dichloroethene in MW-401B : Aquifer-S

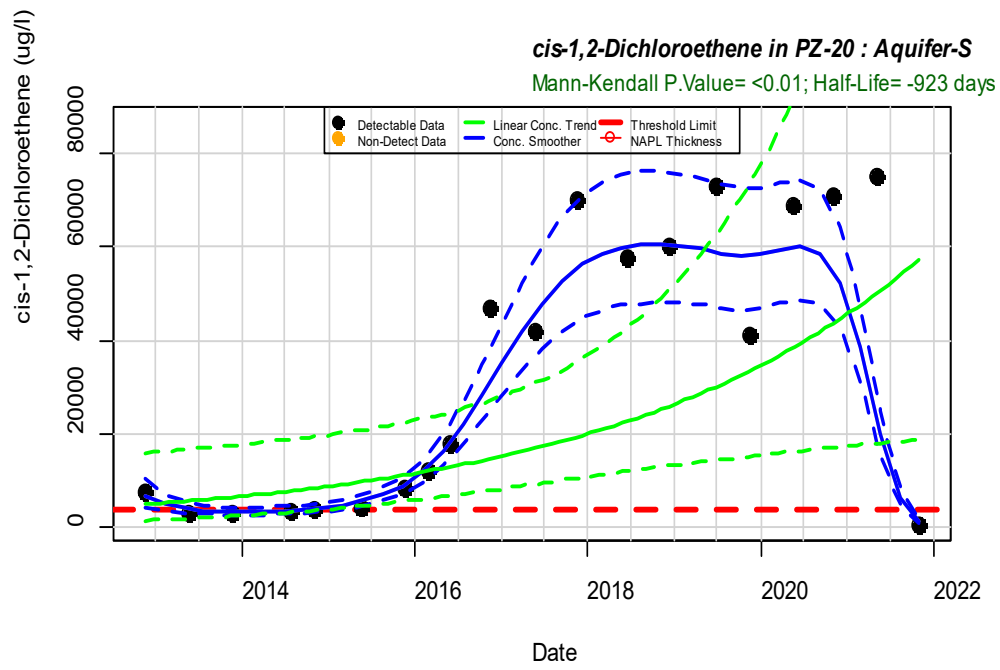
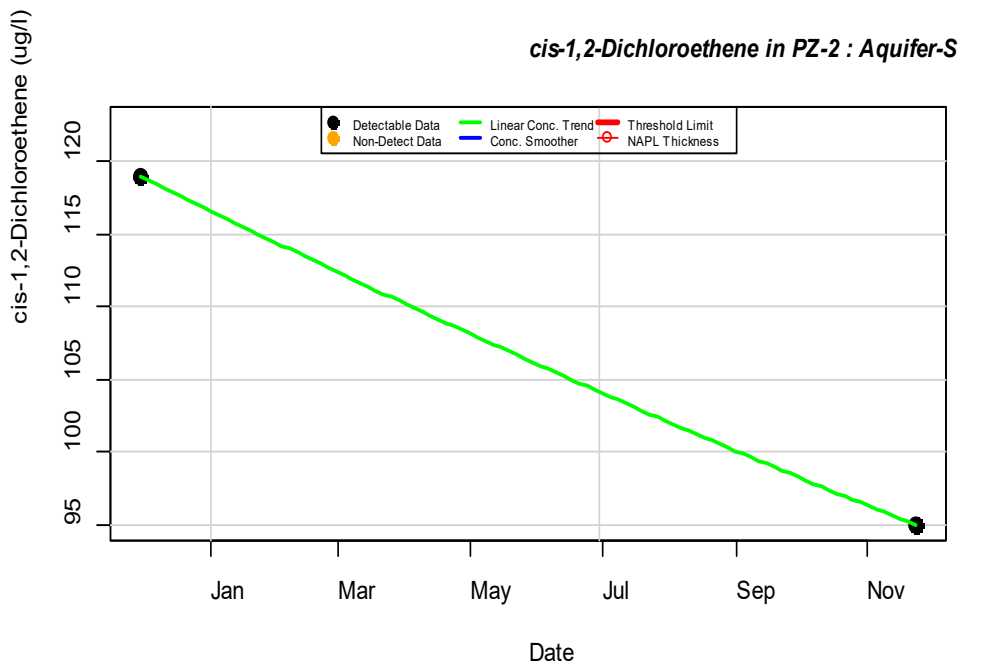
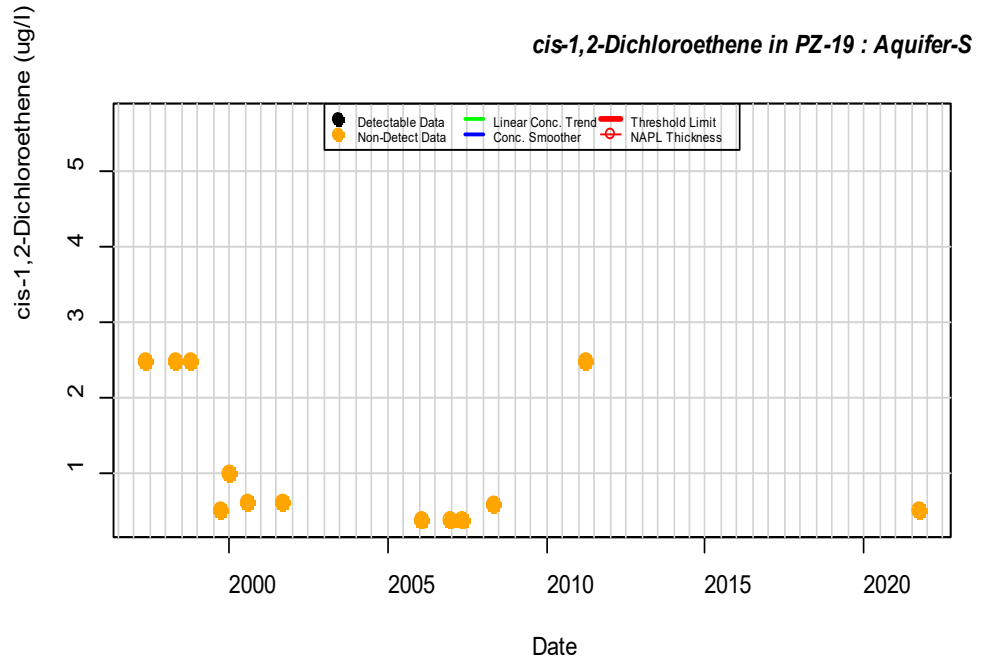
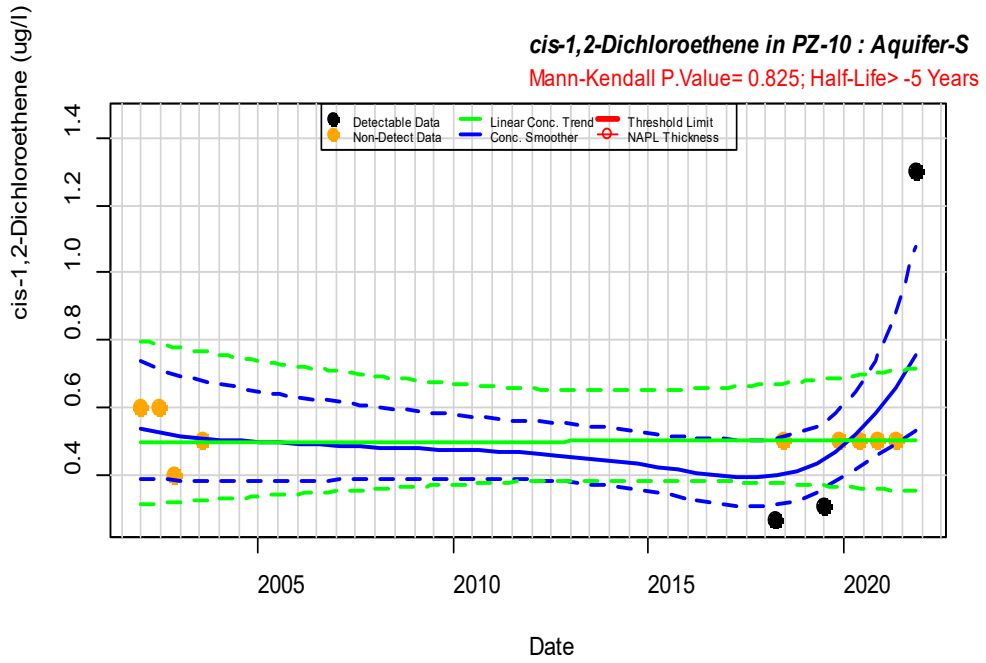
Mann-Kendall P.Value= <0.01; Half-Life= -863 days

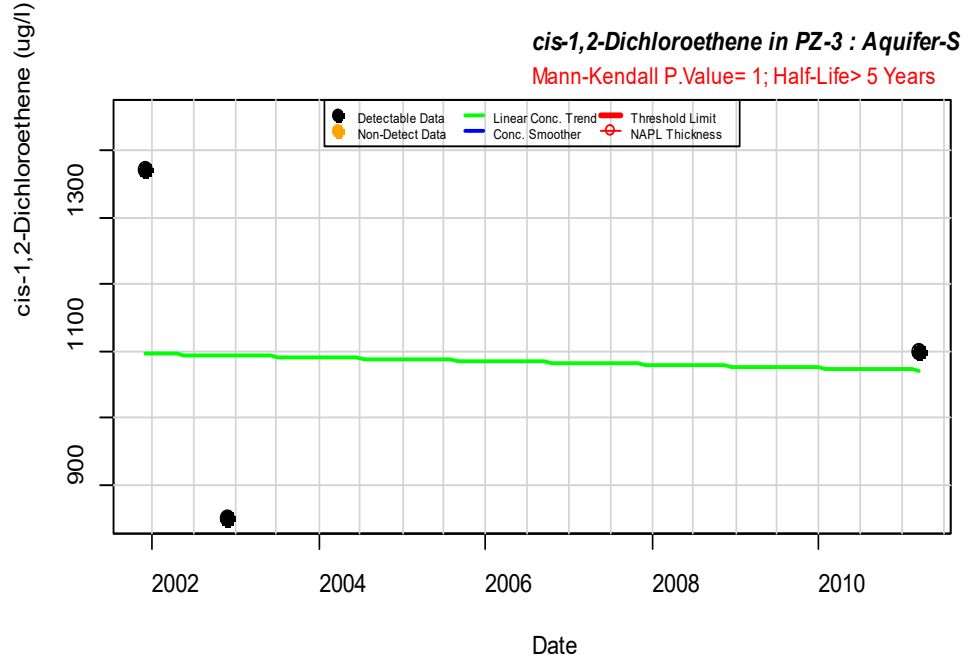
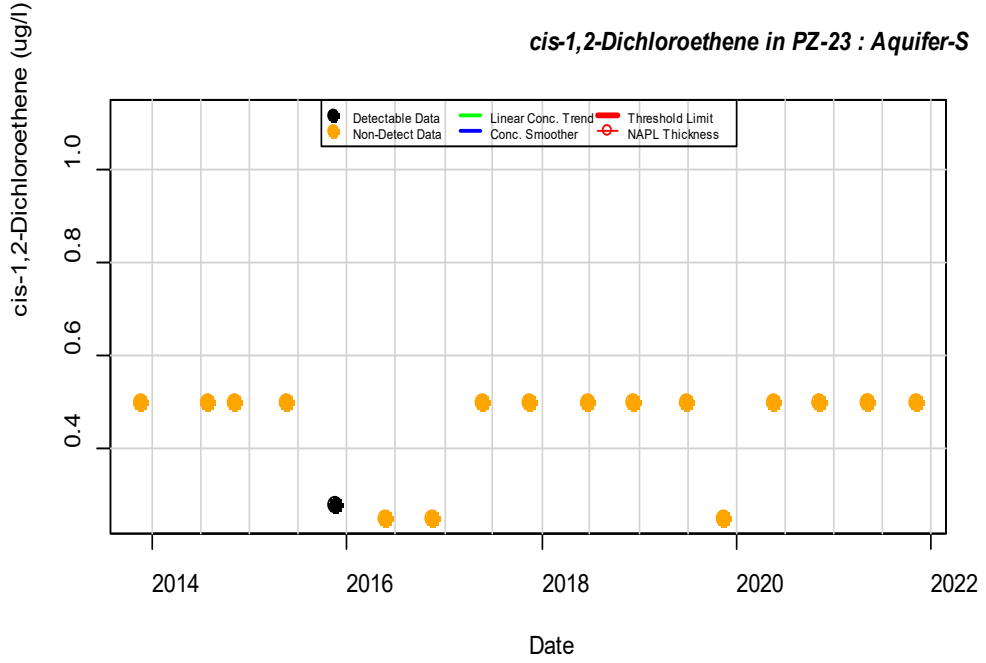
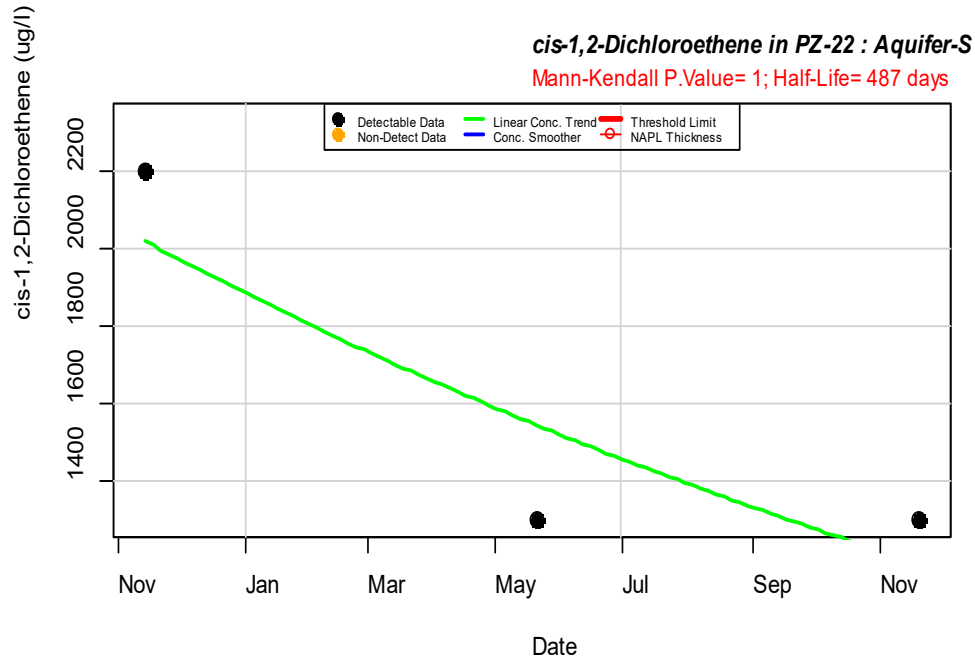
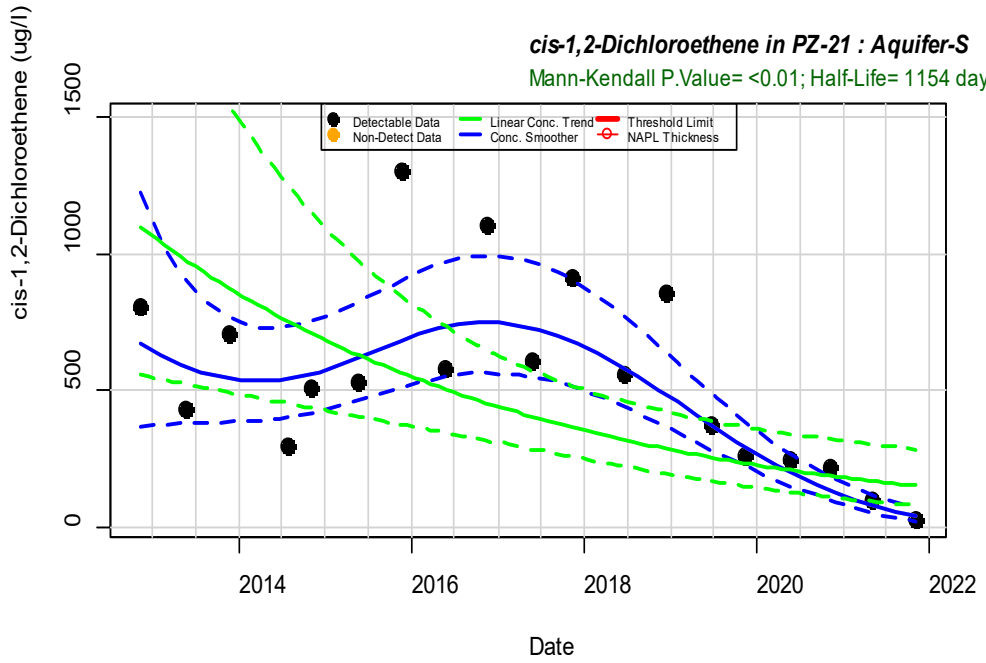


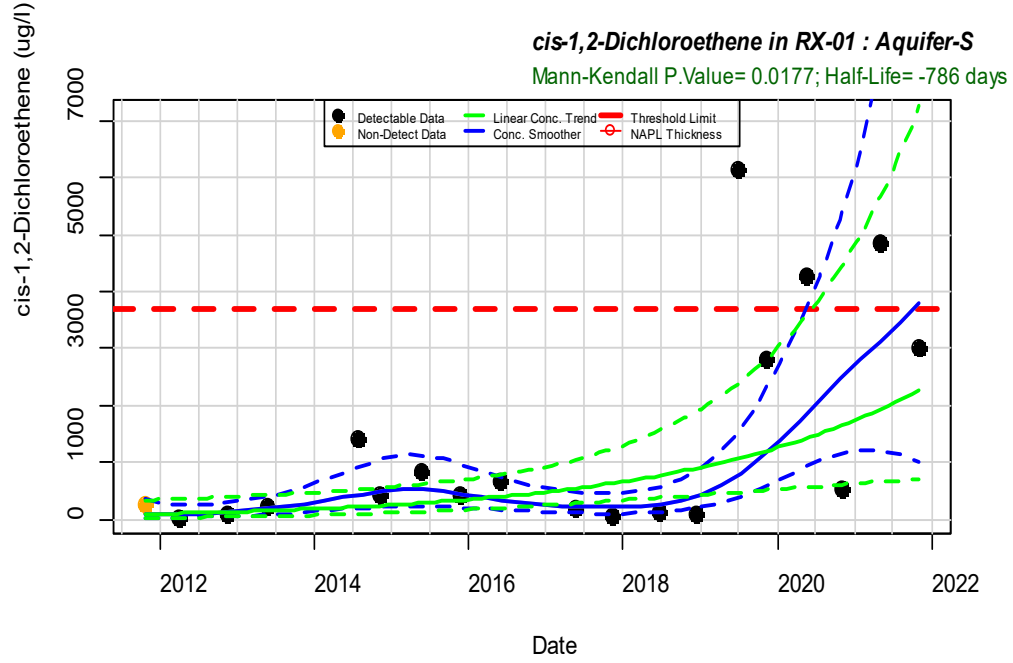
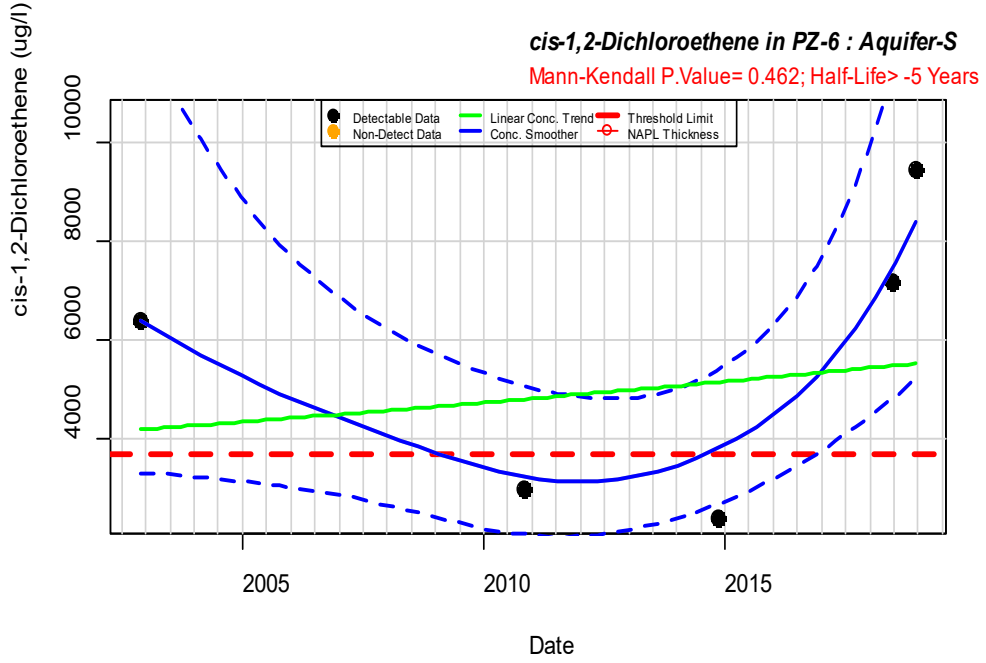
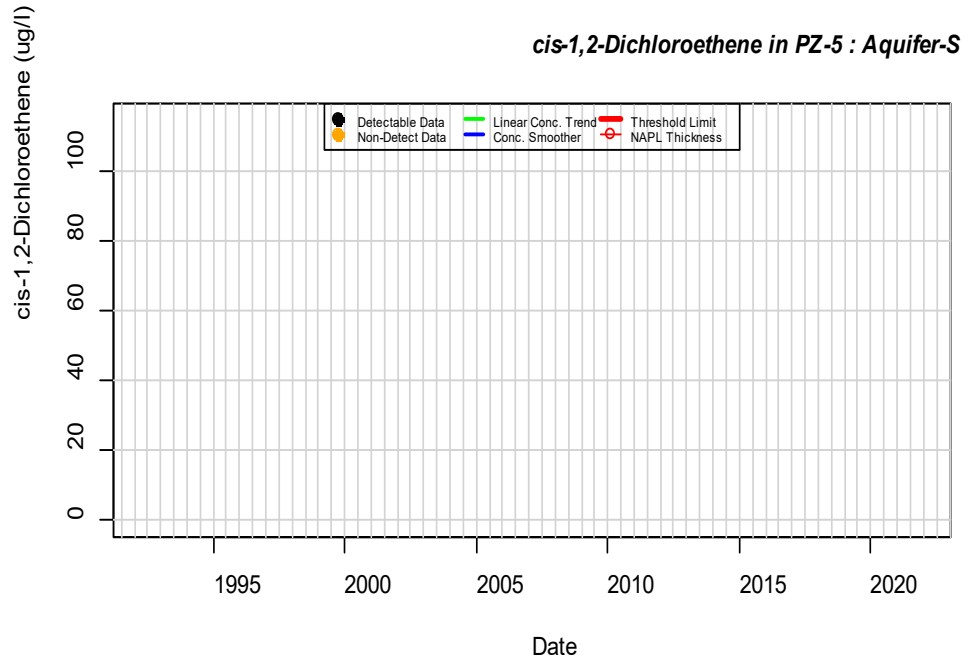
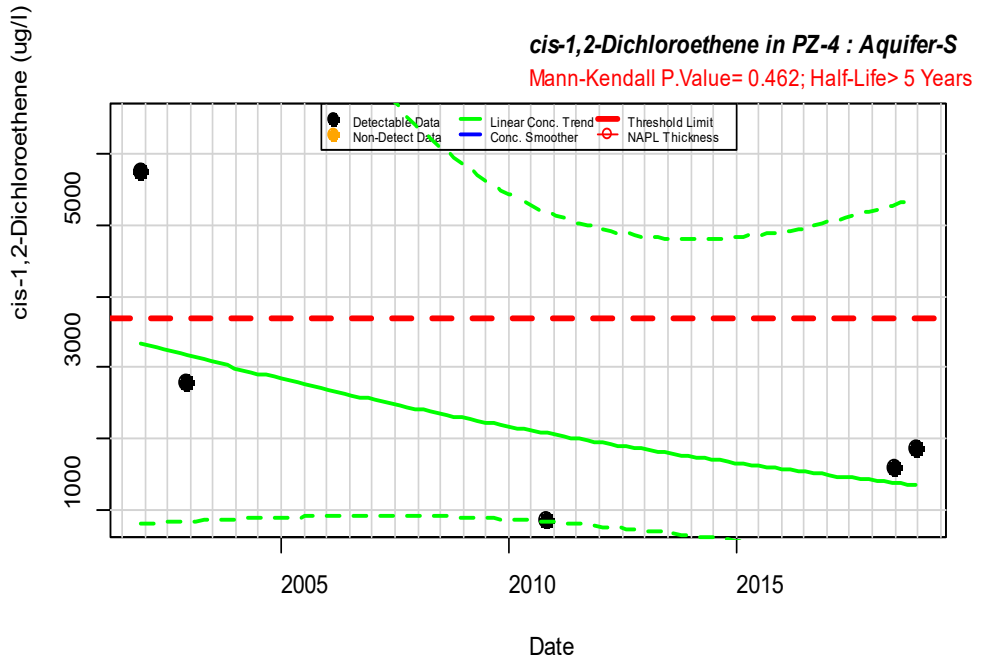
cis-1,2-Dichloroethene in PZ-1 : Aquifer-S

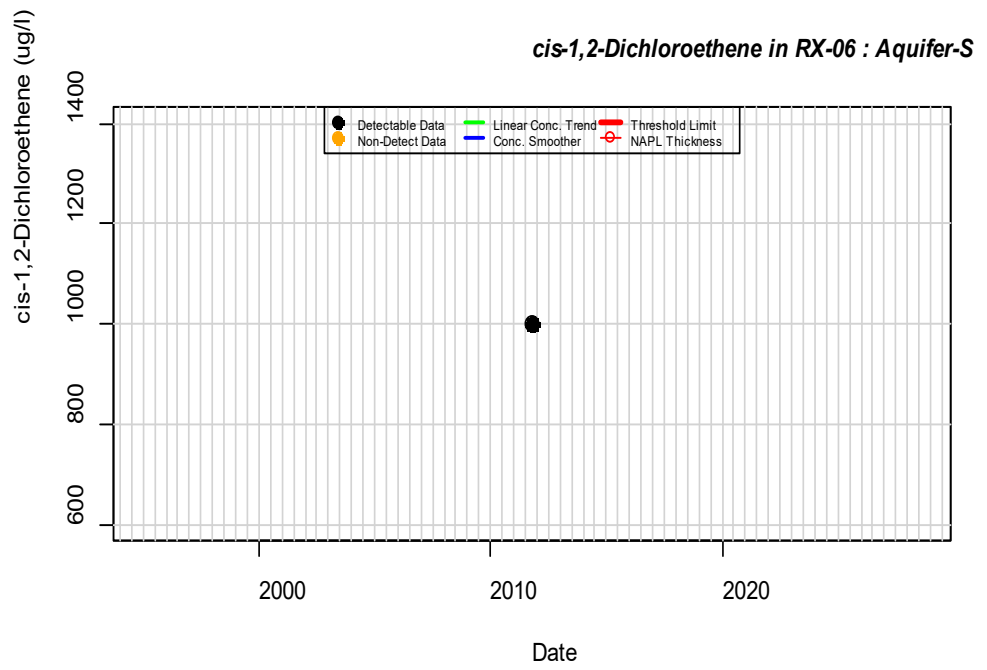
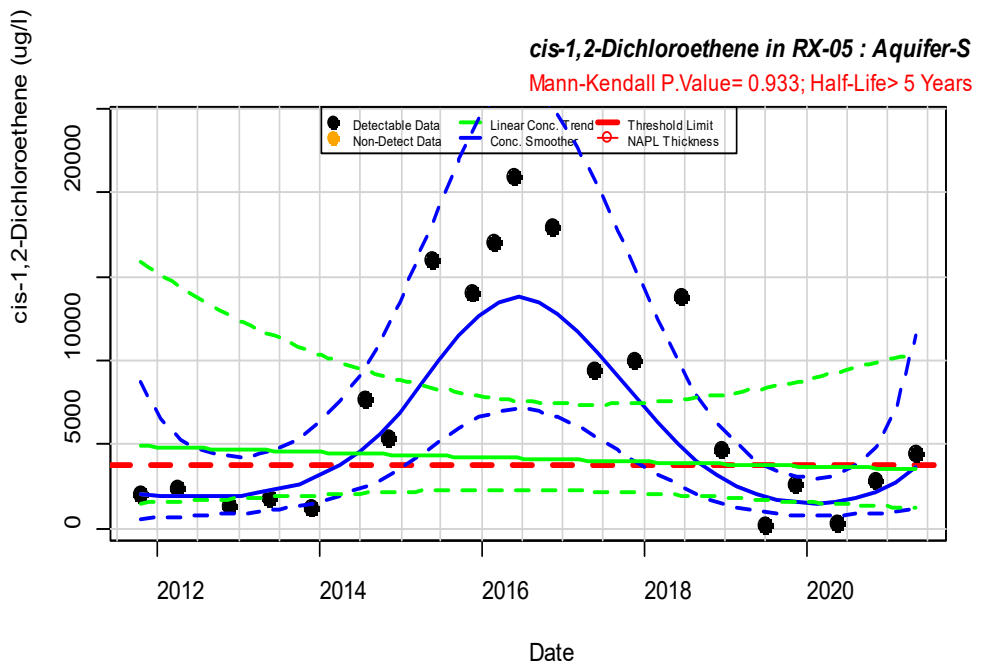
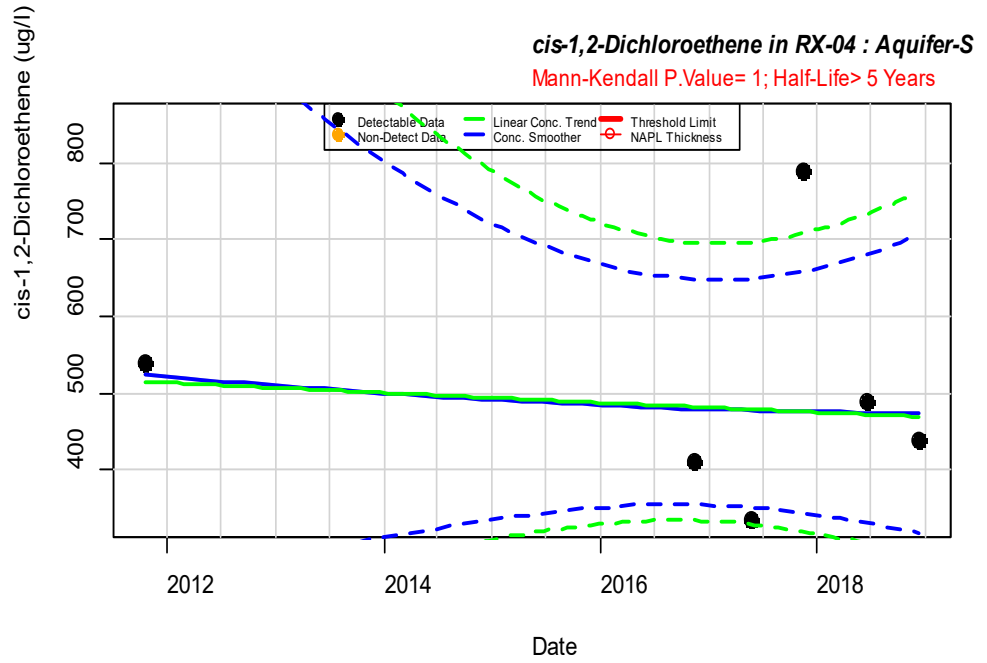
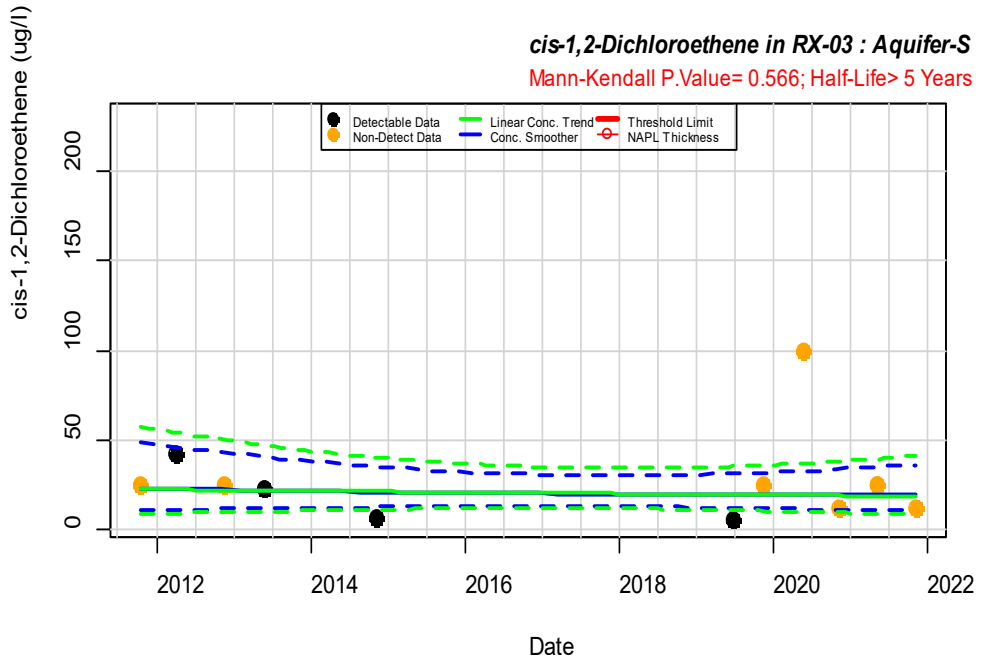
Mann-Kendall P.Value= 1; Half-Life= 650 days

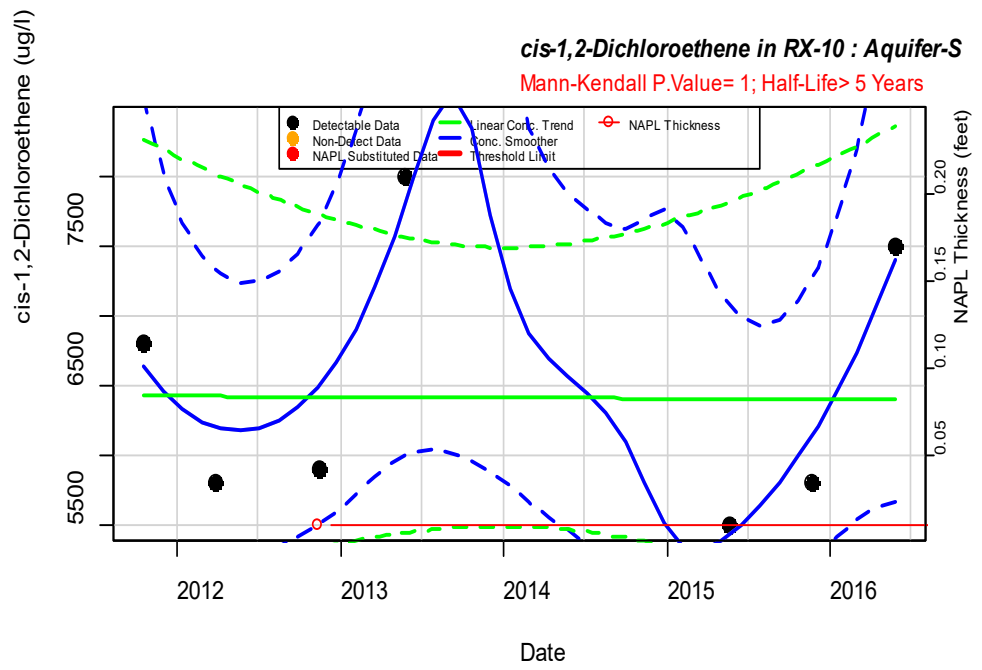
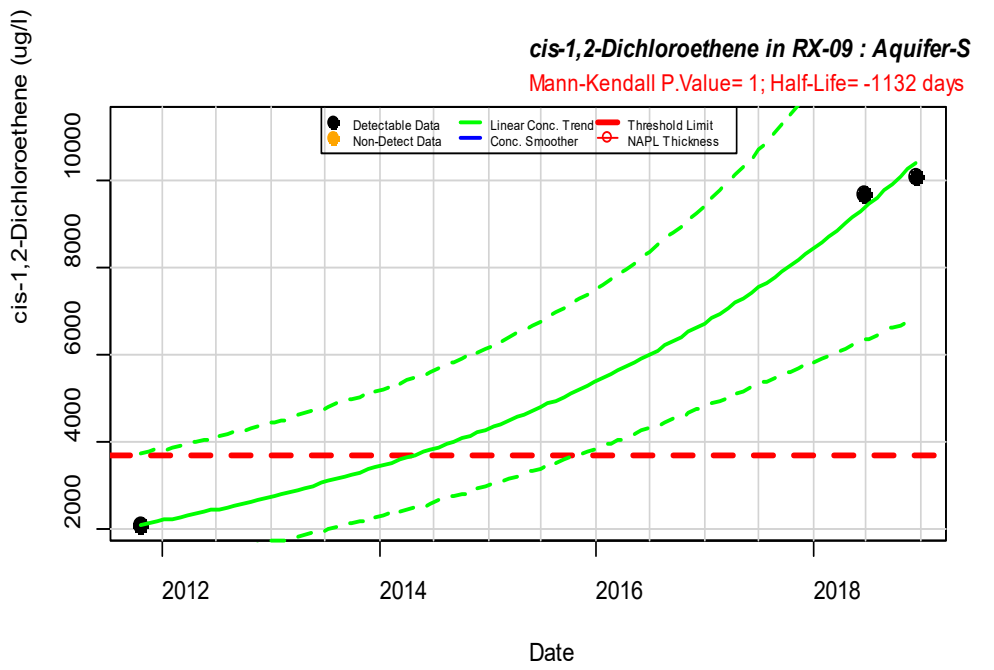
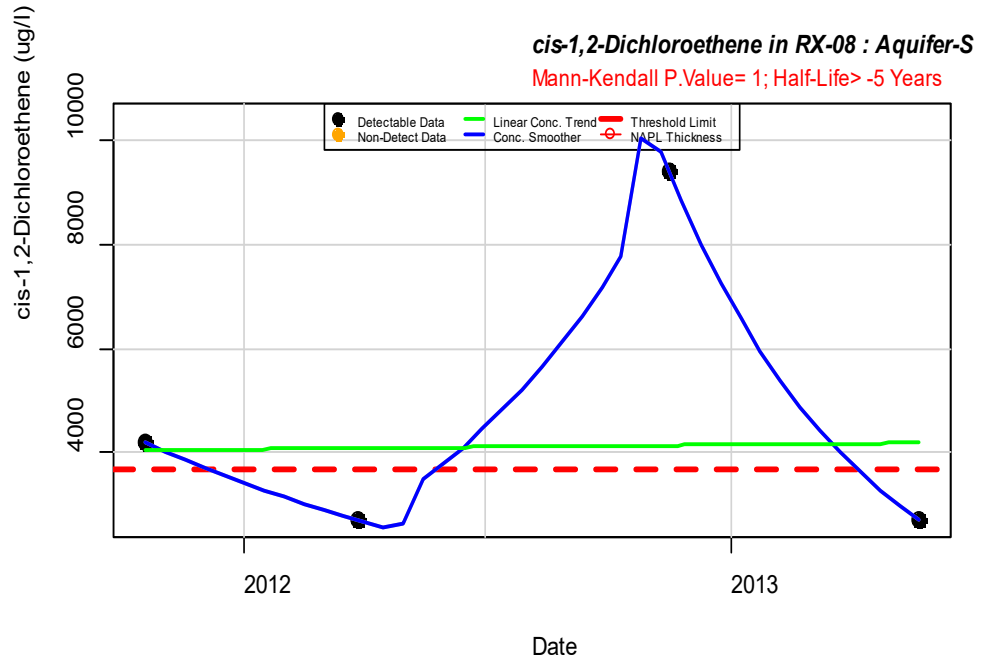
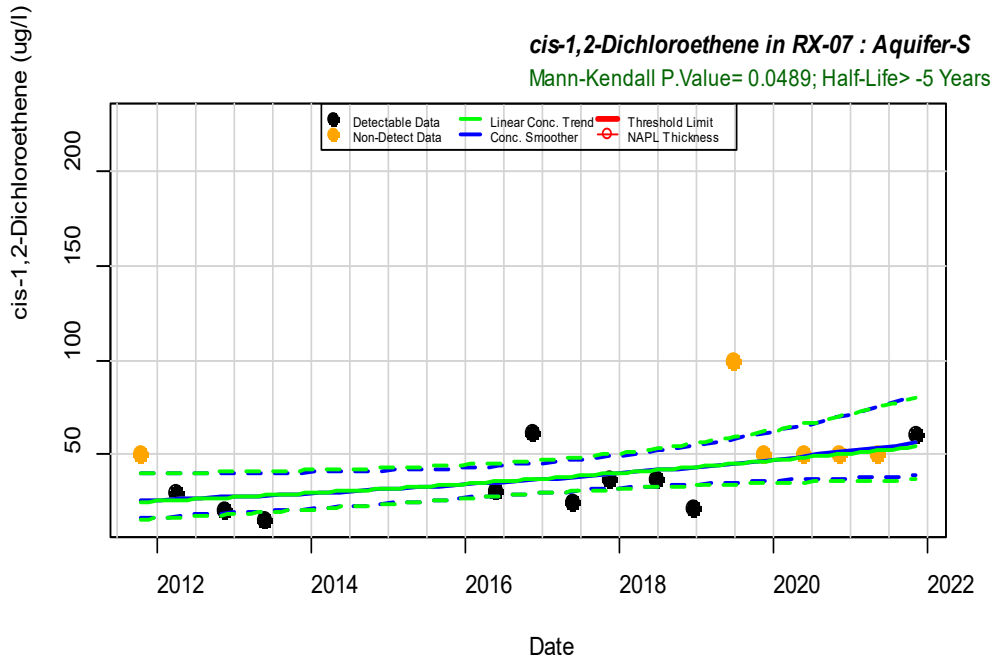




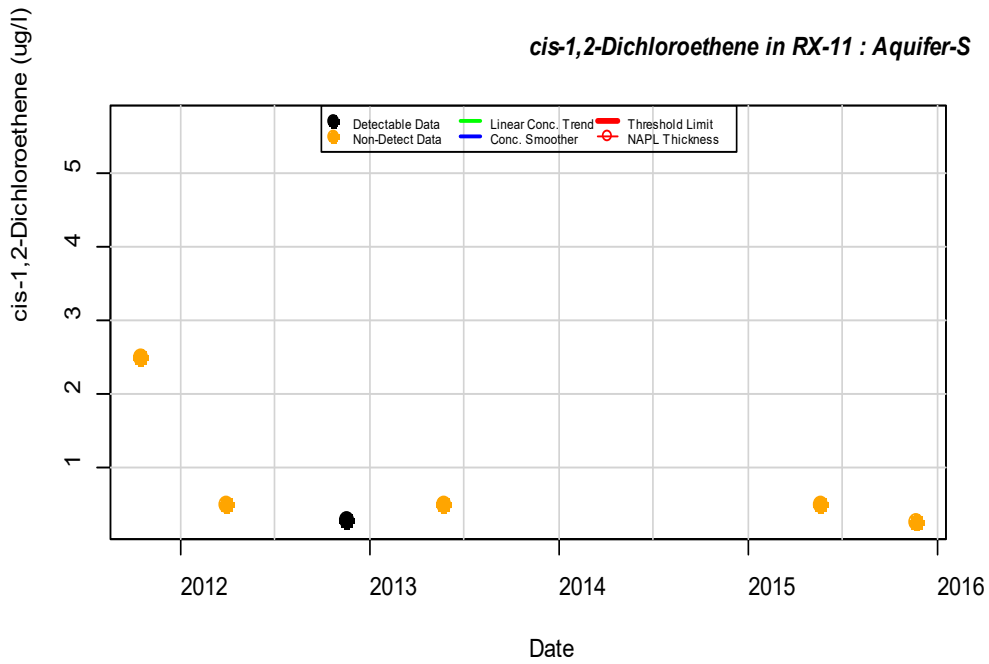






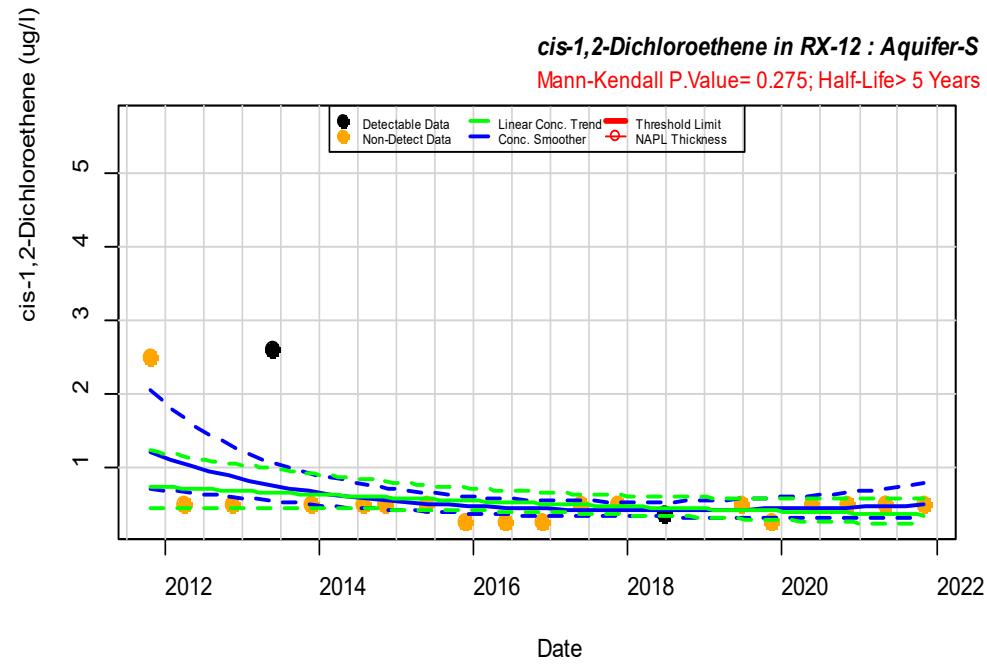


cis-1,2-Dichloroethene in RX-11 : Aquifer-S



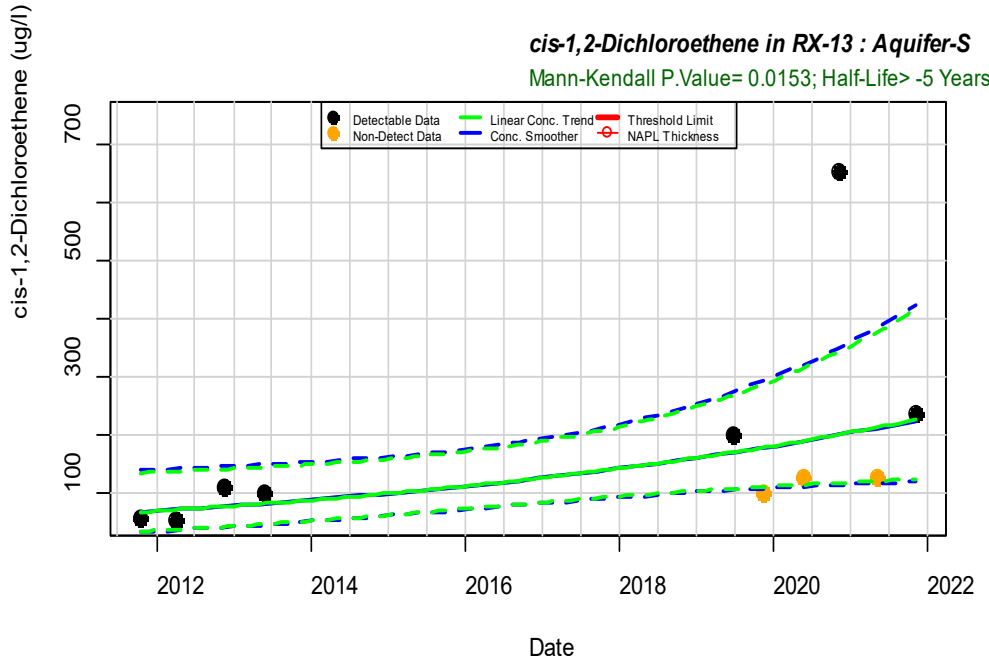
cis-1,2-Dichloroethene in RX-12 : Aquifer-S

Mann-Kendall P.Value= 0.275; Half-Life> 5 Years



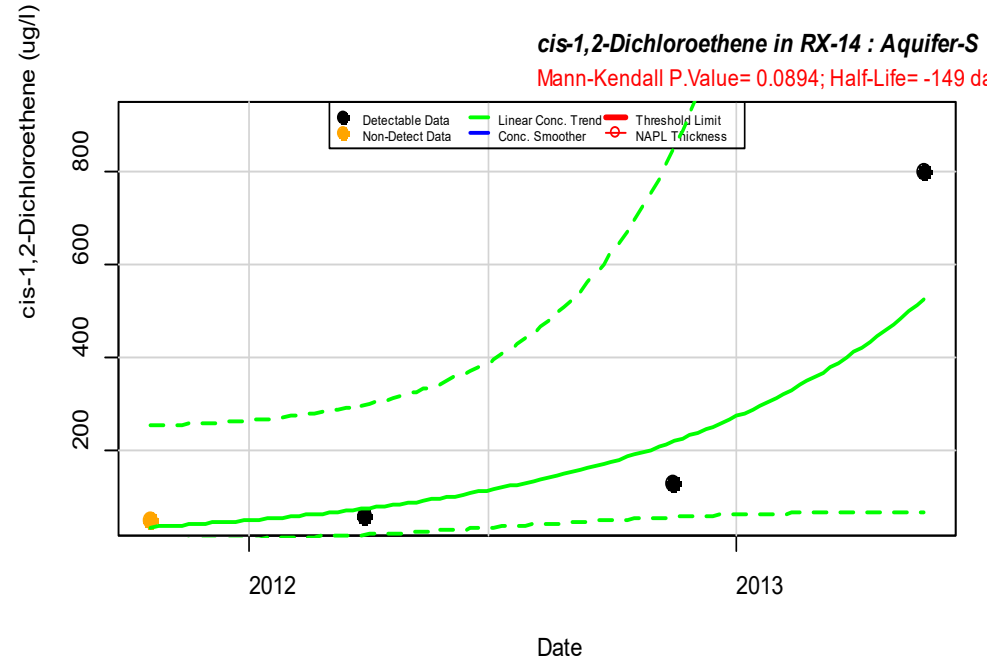
cis-1,2-Dichloroethene in RX-13 : Aquifer-S

Mann-Kendall P.Value= 0.0153; Half-Life> -5 Years

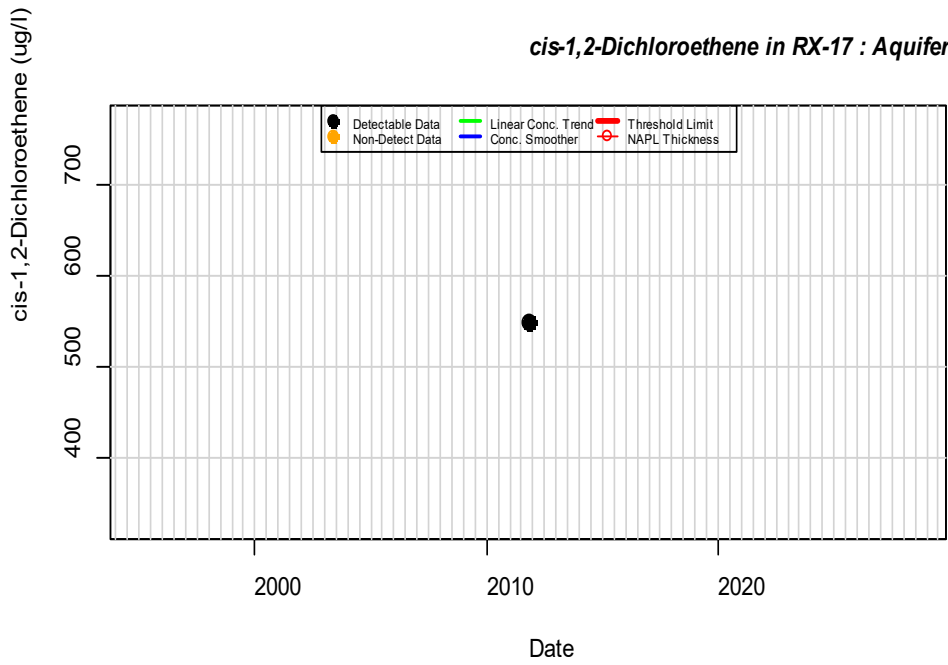


cis-1,2-Dichloroethene in RX-14 : Aquifer-S

Mann-Kendall P.Value= 0.0894; Half-Life= -149 days

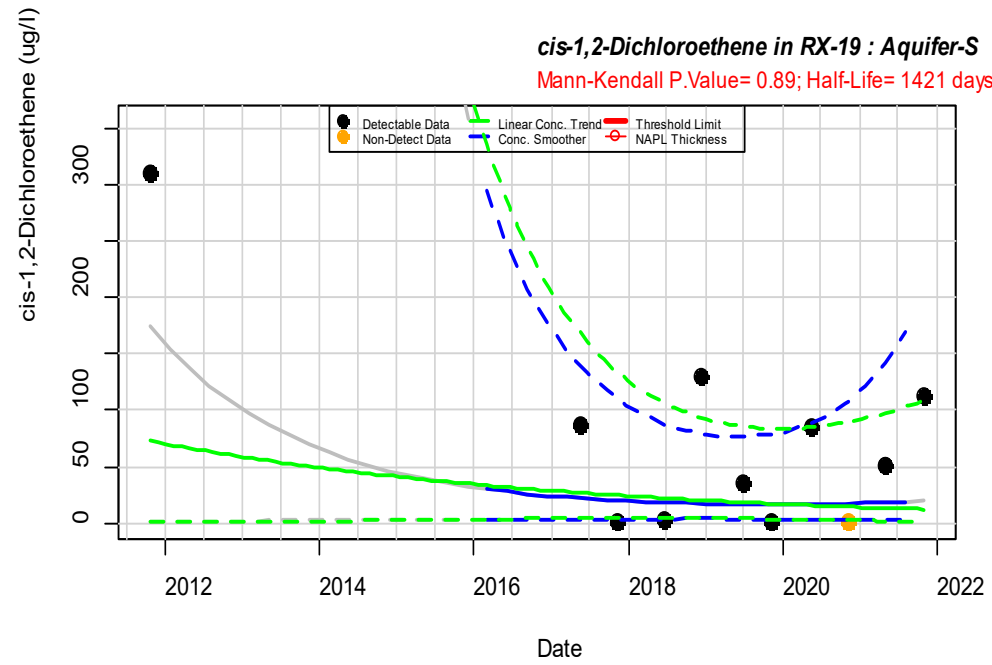


cis-1,2-Dichloroethene in RX-17 : Aquifer-S



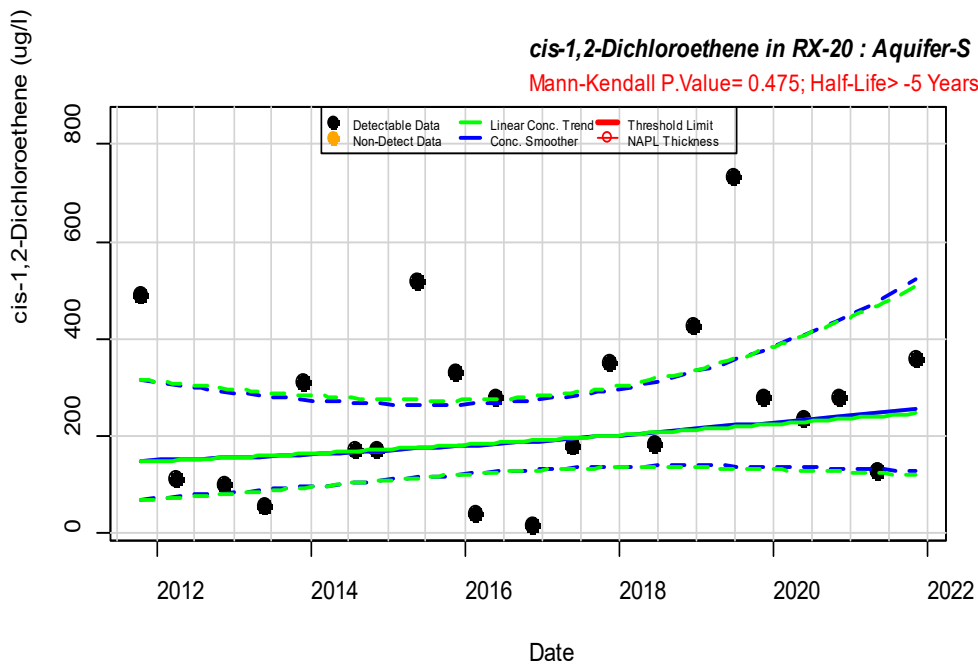
cis-1,2-Dichloroethene in RX-19 : Aquifer-S

Mann-Kendall P.Value= 0.89; Half-Life= 1421 days

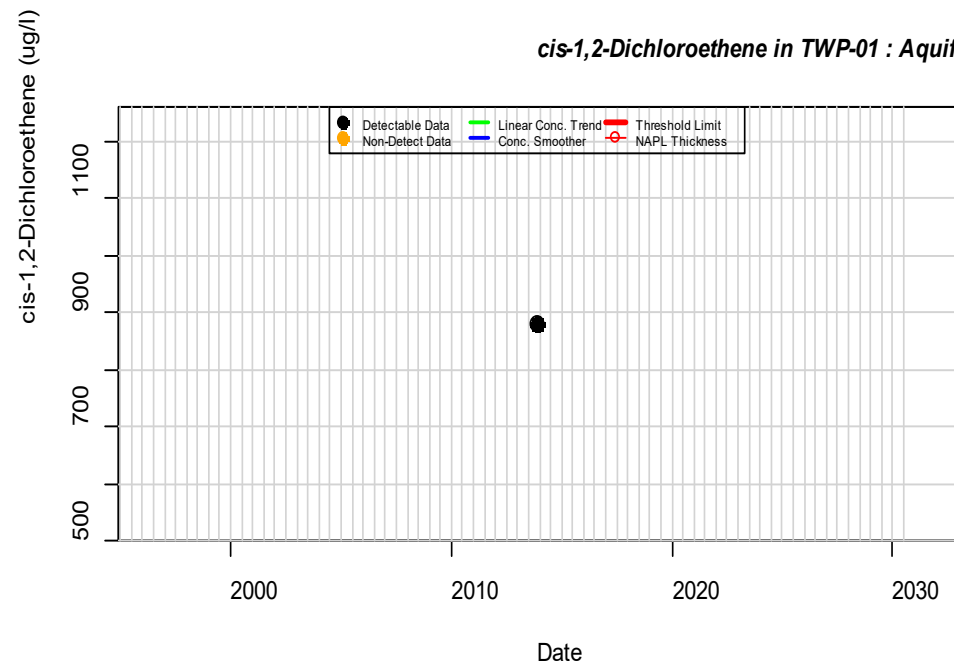


cis-1,2-Dichloroethene in RX-20 : Aquifer-S

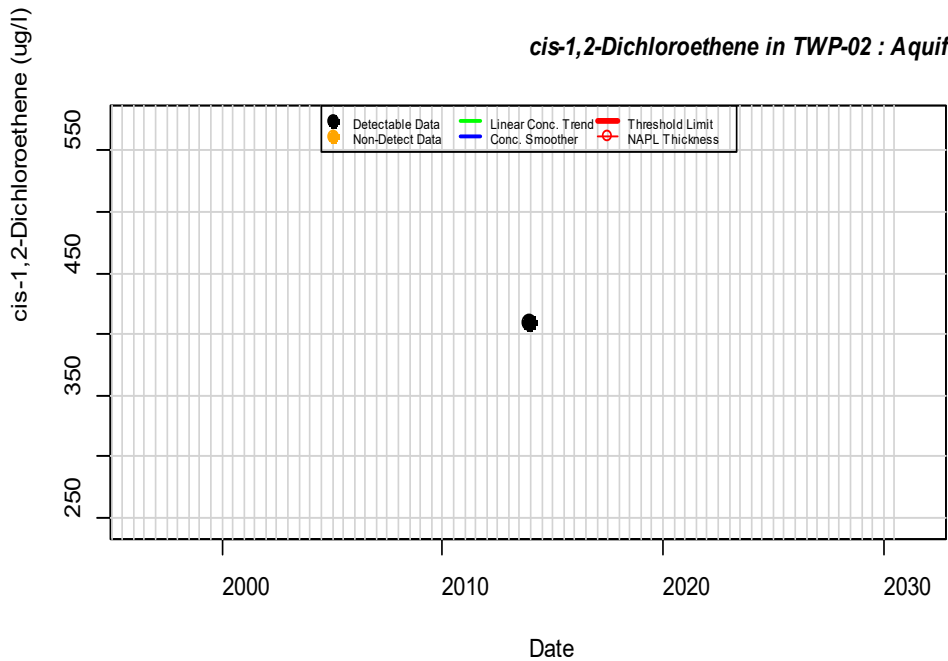
Mann-Kendall P.Value= 0.475; Half-Life> -5 Years



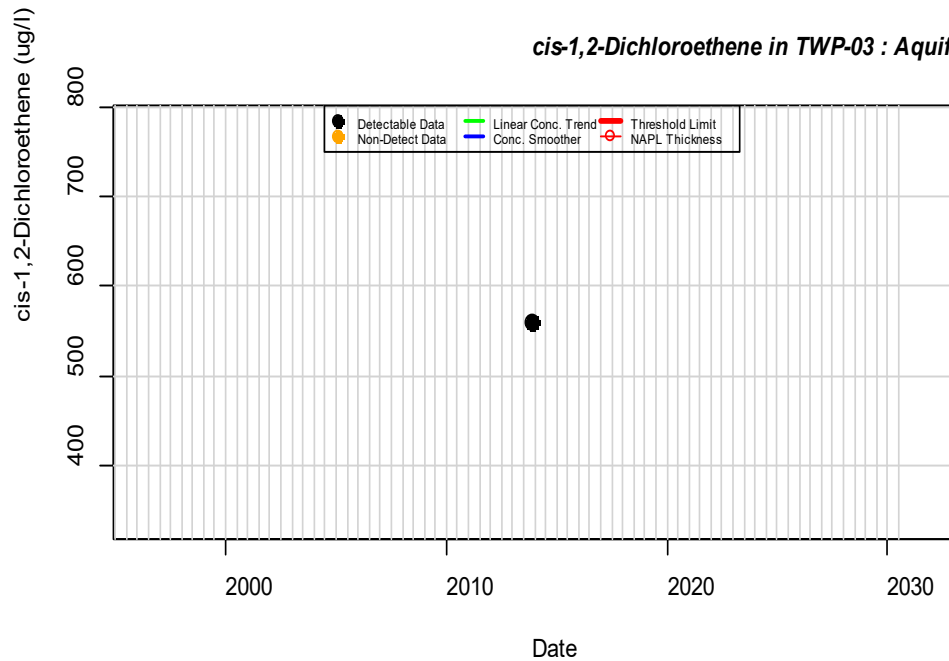
cis-1,2-Dichloroethene in TWP-01 : Aquifer-S



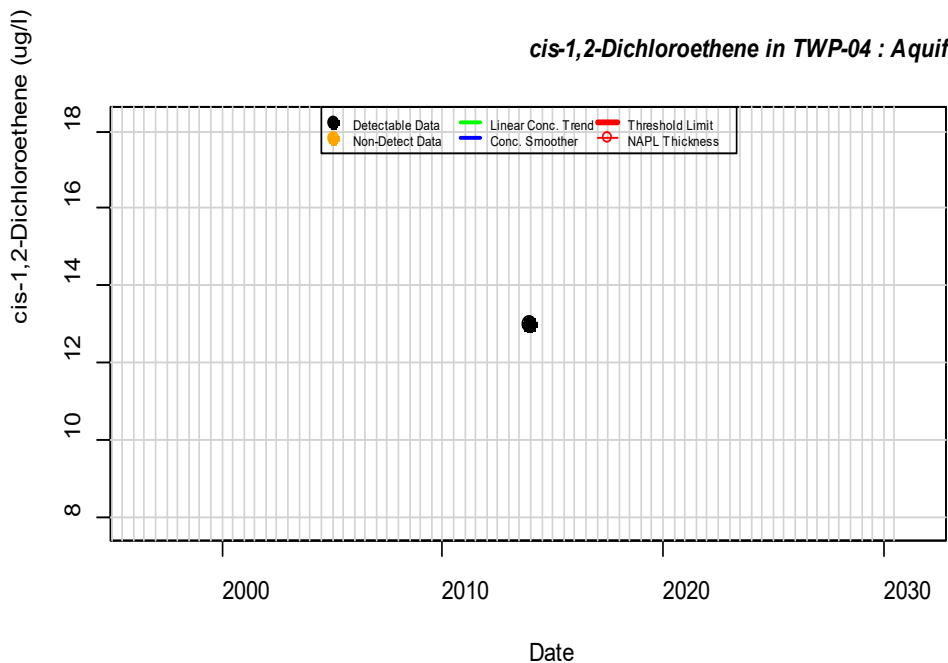
cis-1,2-Dichloroethene in TWP-02 : Aquifer-S



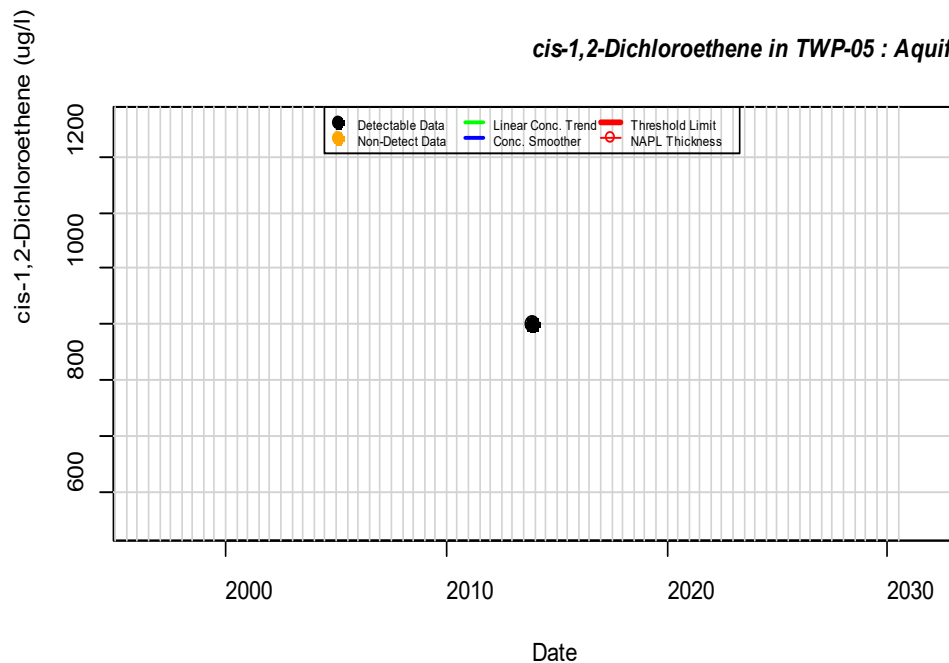
cis-1,2-Dichloroethene in TWP-03 : Aquifer-S



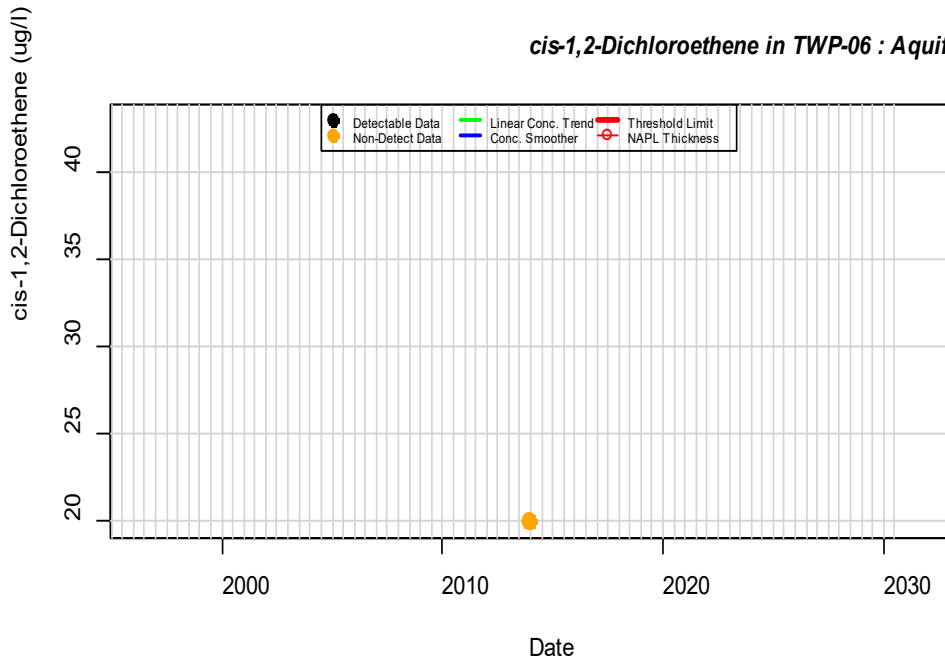
cis-1,2-Dichloroethene in TWP-04 : Aquifer-S



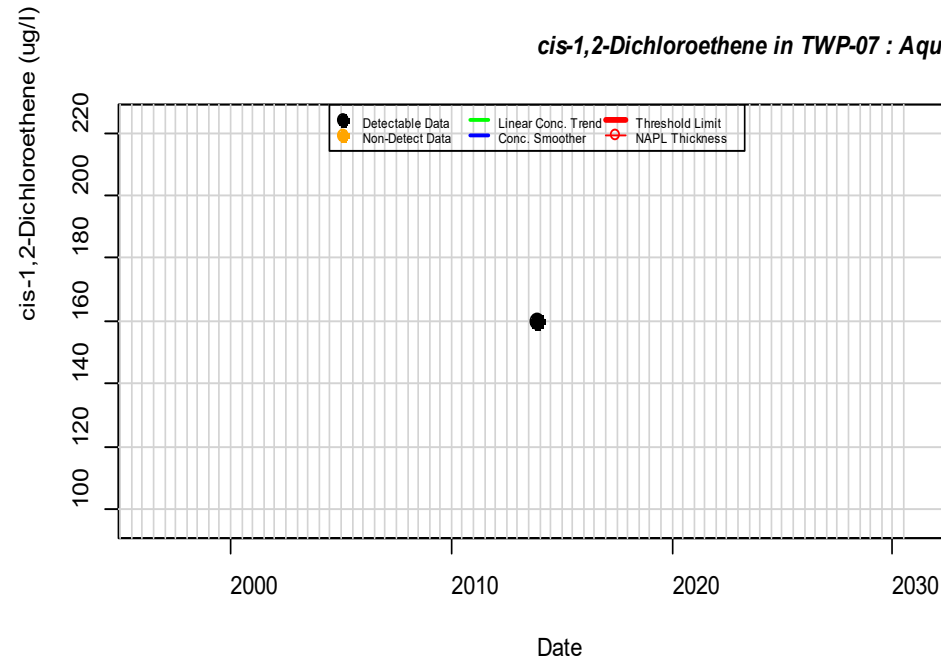
cis-1,2-Dichloroethene in TWP-05 : Aquifer-S



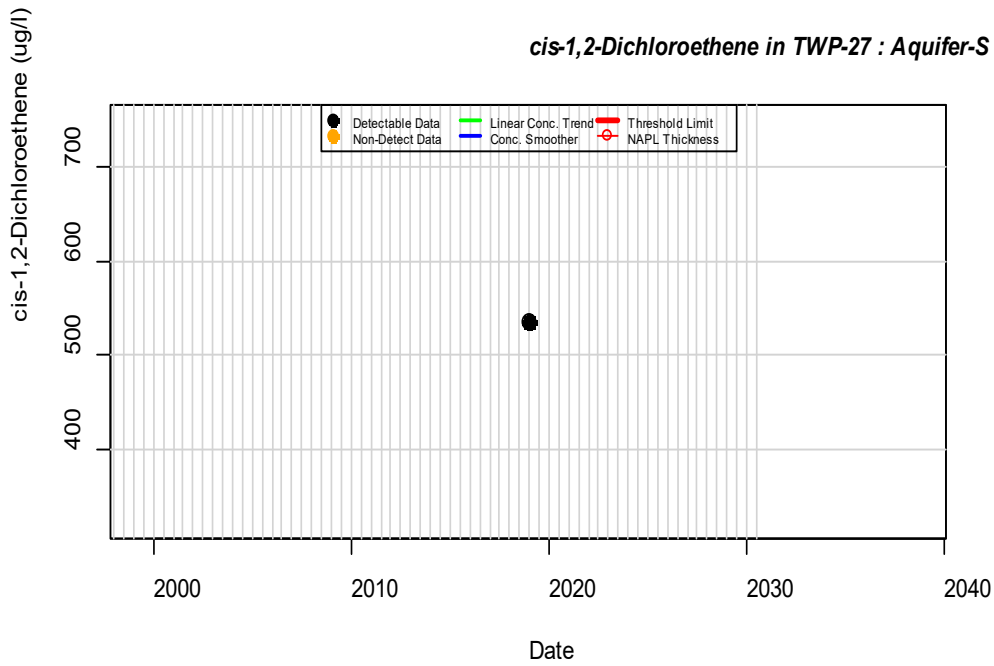
cis-1,2-Dichloroethene in TWP-06 : Aquifer-S



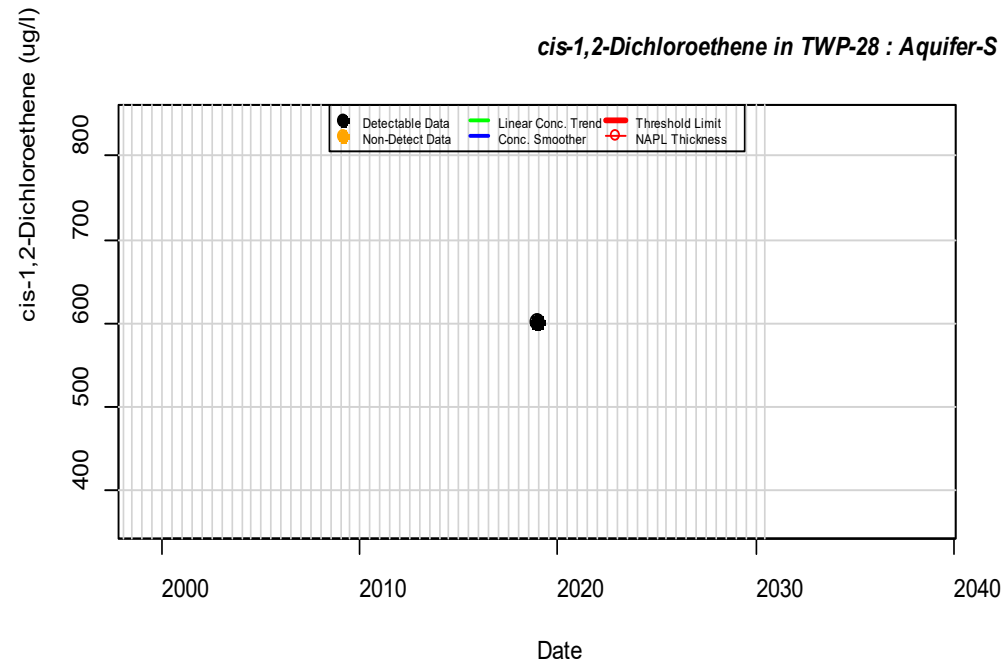
cis-1,2-Dichloroethene in TWP-07 : Aquifer-S



cis-1,2-Dichloroethene in TWP-27 : Aquifer-S

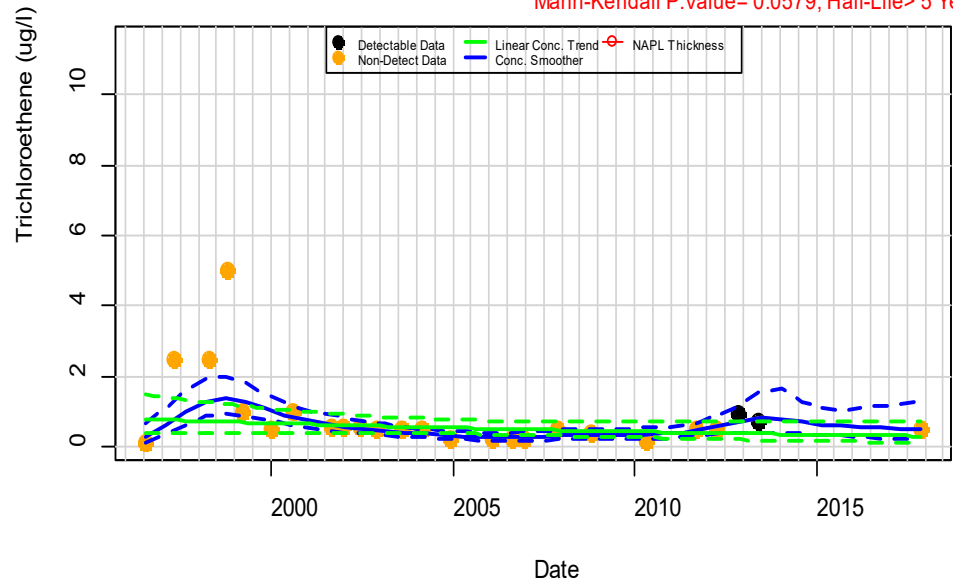


cis-1,2-Dichloroethene in TWP-28 : Aquifer-S

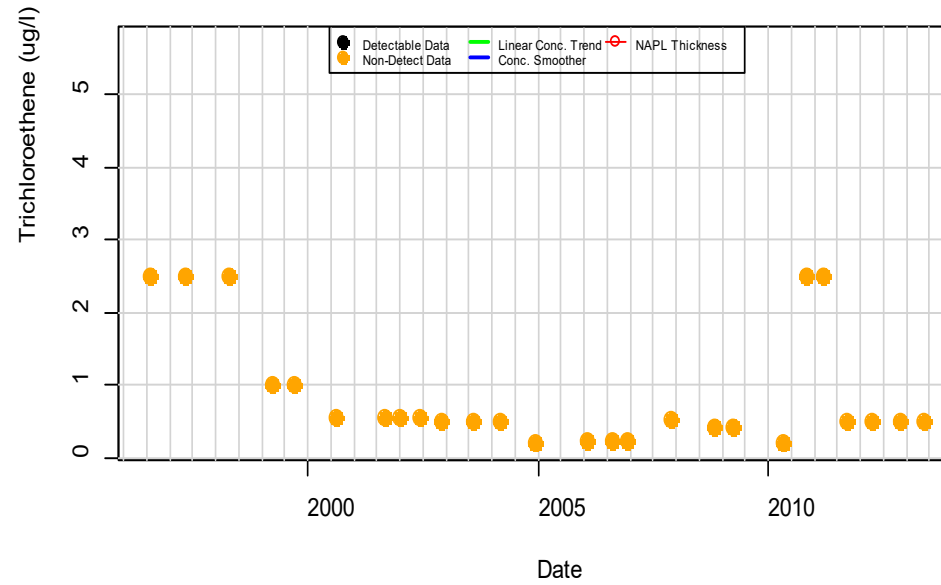


Trichloroethene in MW-102B : Aquifer-S

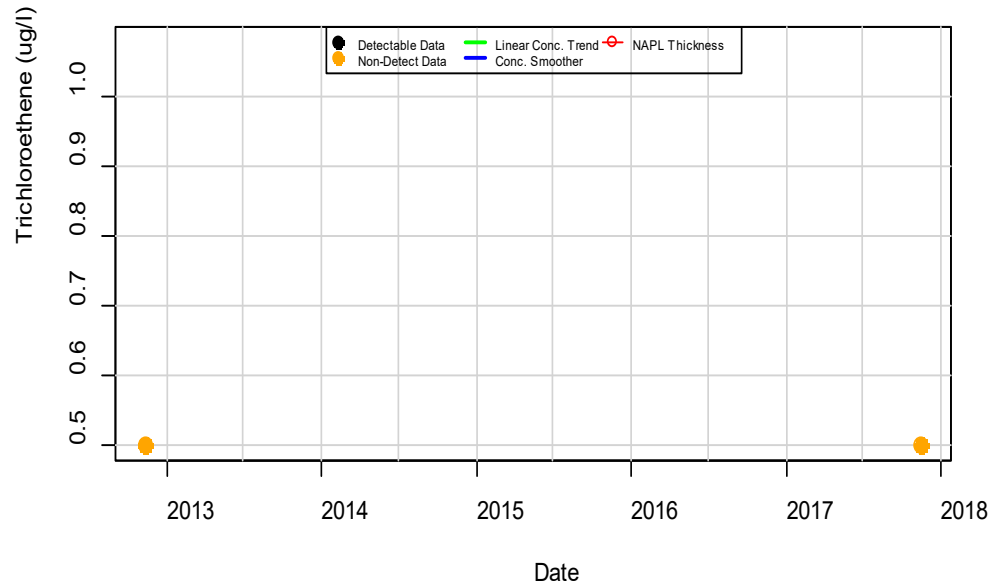
Mann-Kendall P.Value= 0.0579; Half-Life> 5 Years



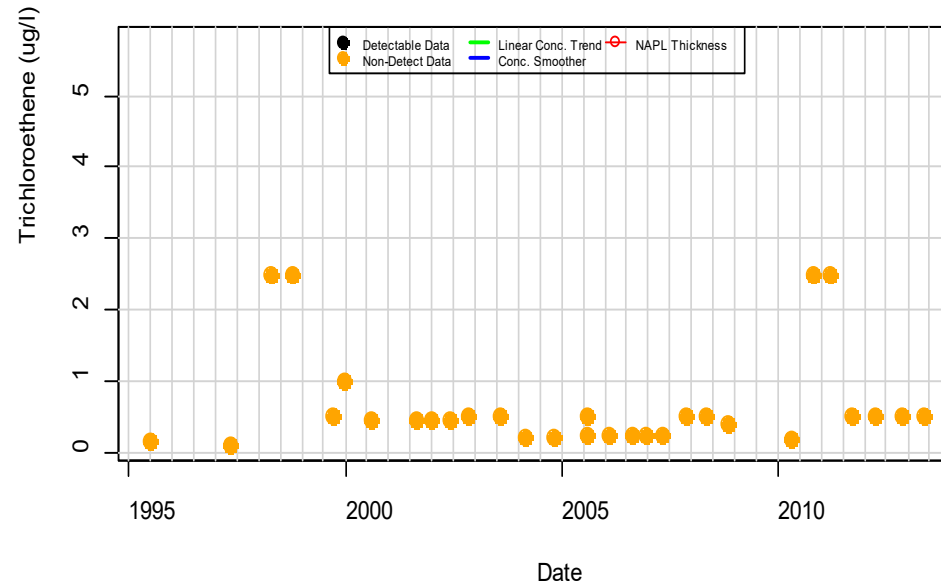
Trichloroethene in MW-201 : Aquifer-S



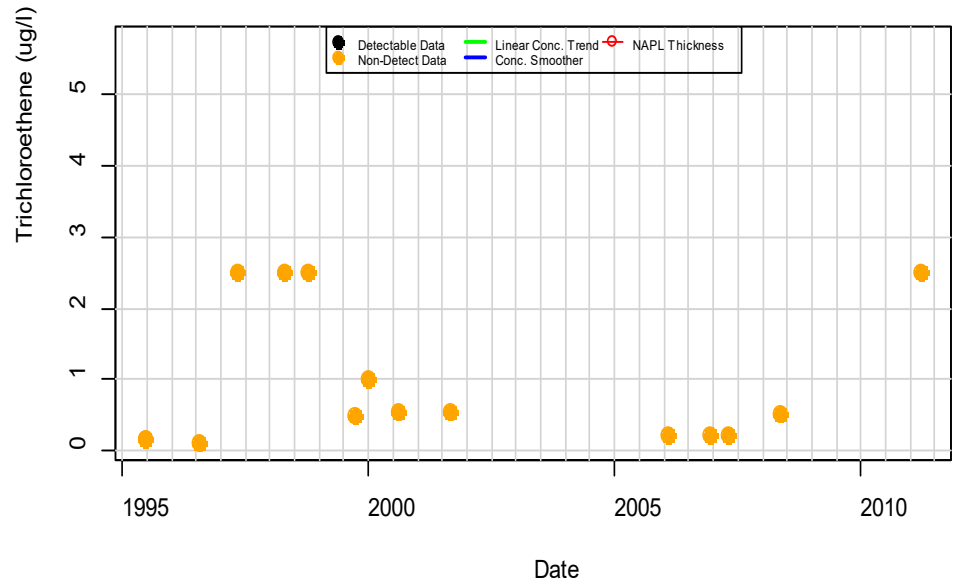
Trichloroethene in MW-30 : Aquifer-S



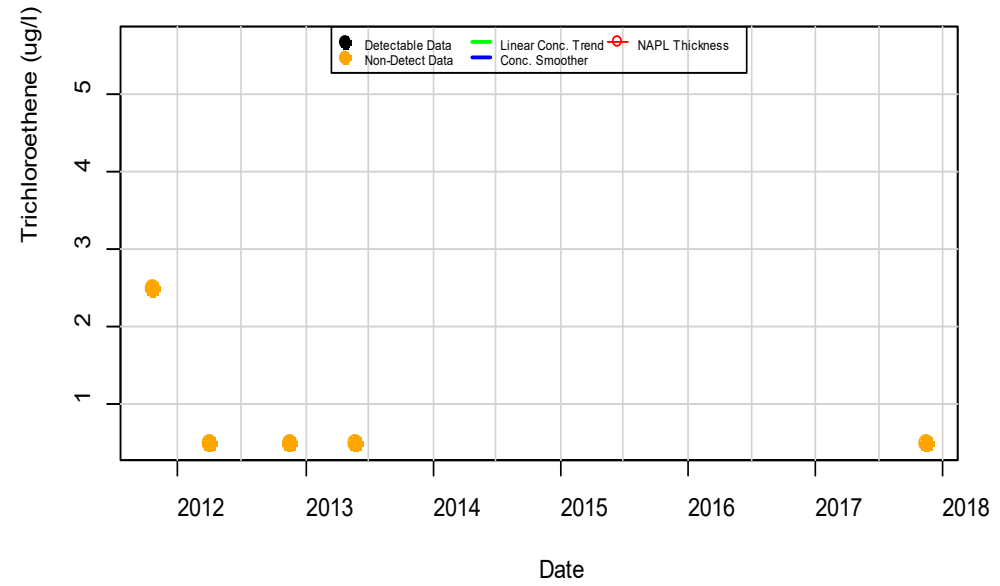
Trichloroethene in PZ-14 : Aquifer-S



Trichloroethene in PZ-19 : Aquifer-S

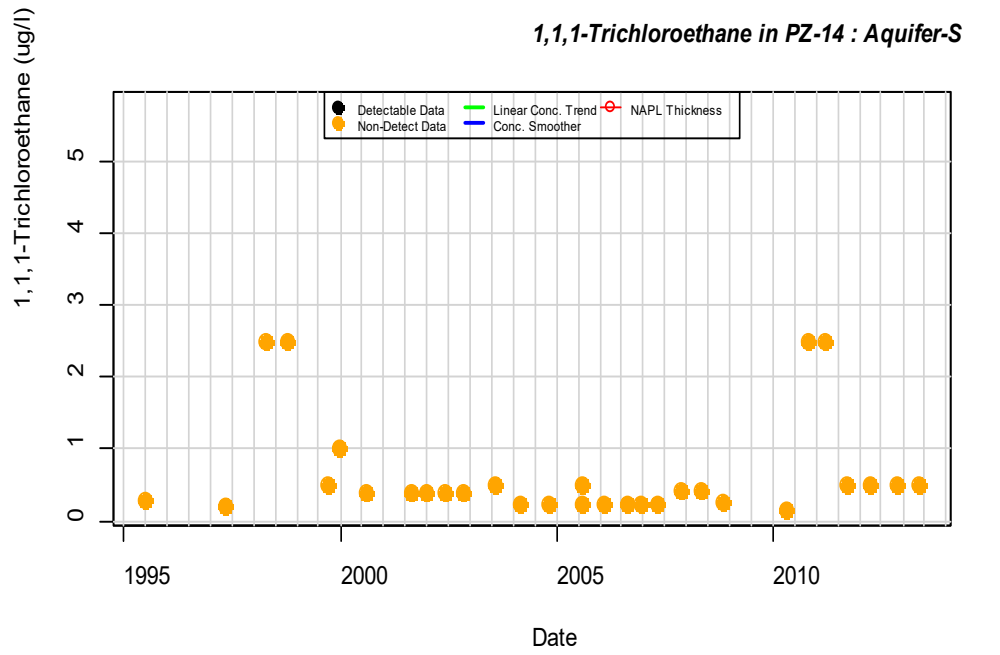
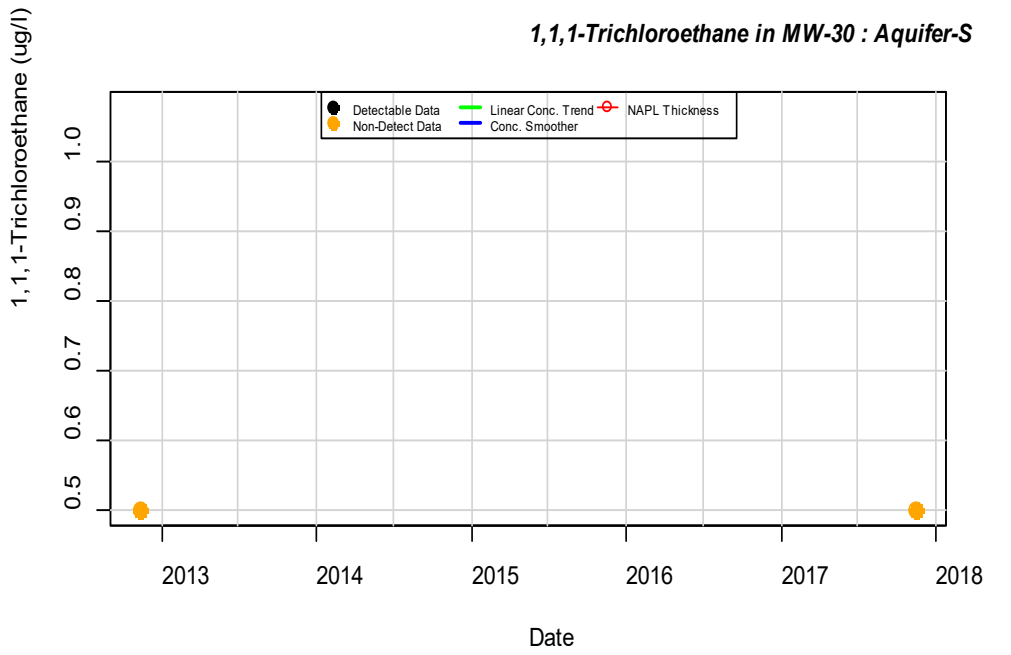
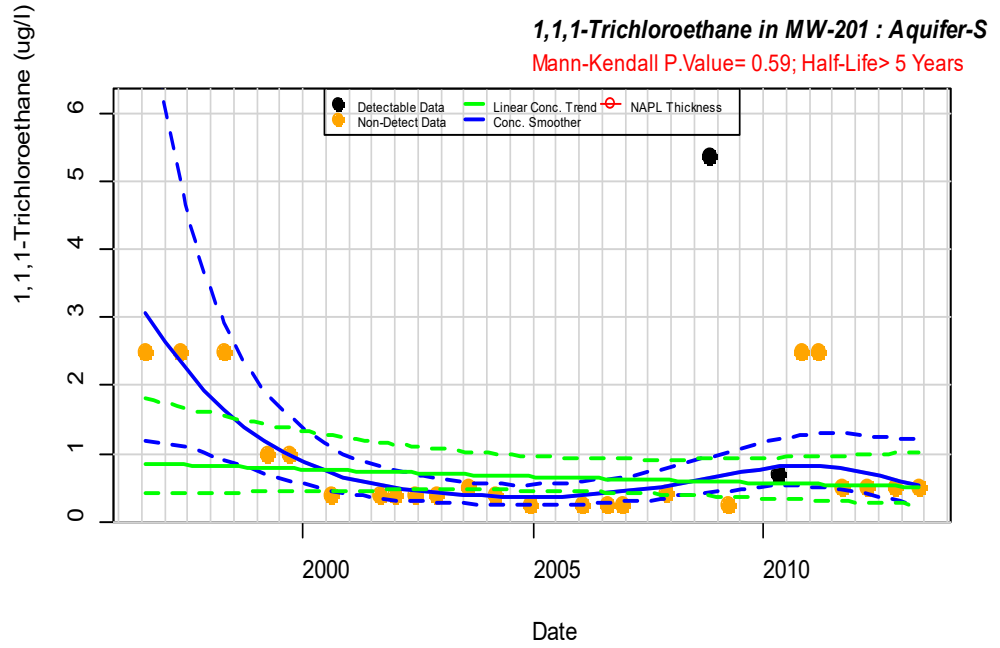
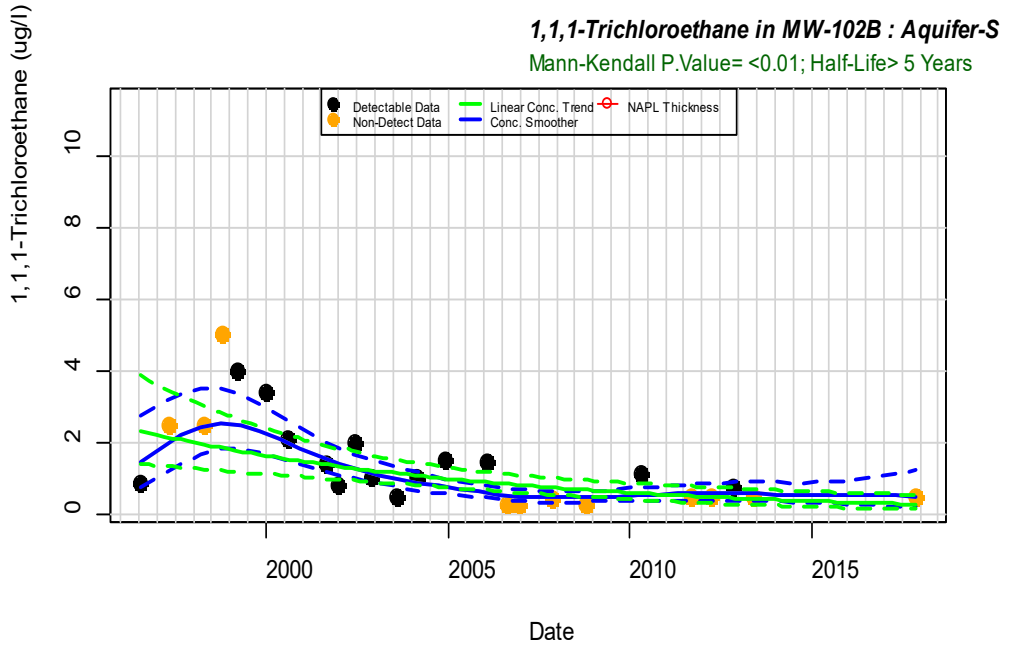


Trichloroethene in RX-02 : Aquifer-S

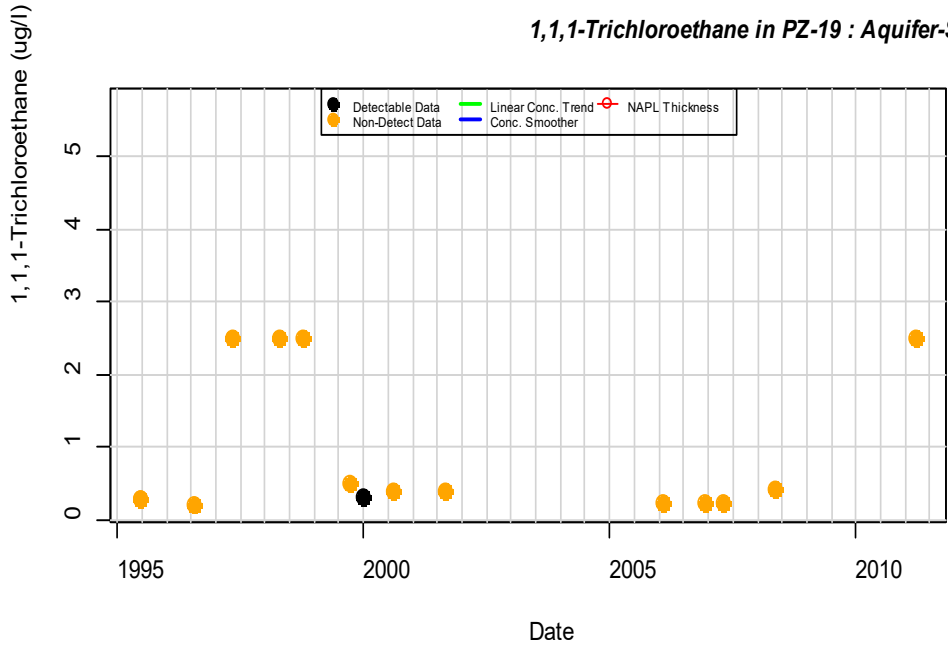


1,1,1-TCA

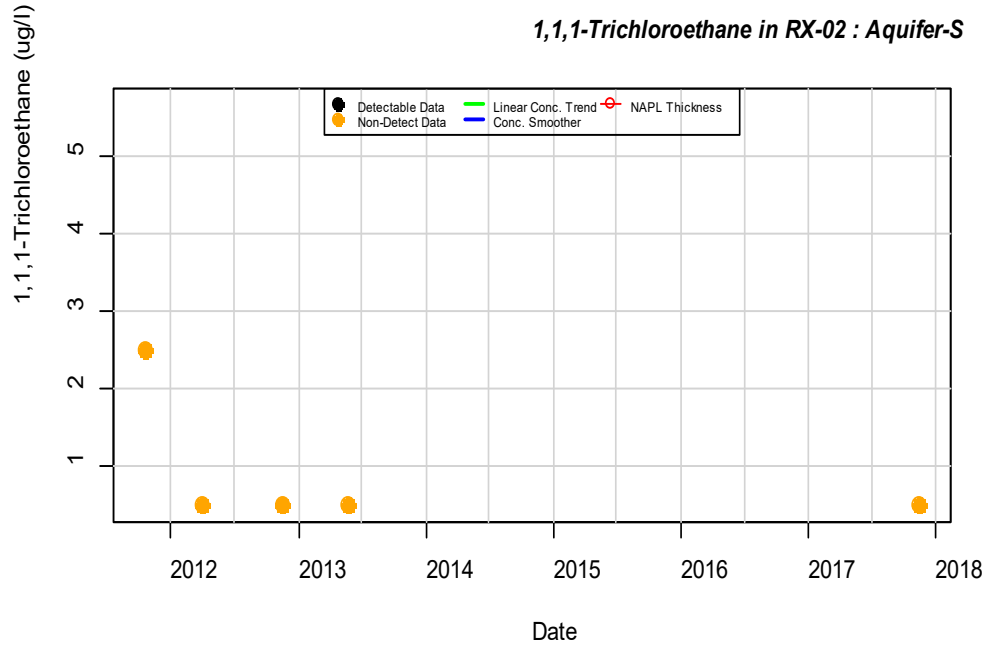
29,000 ug/L Threshold

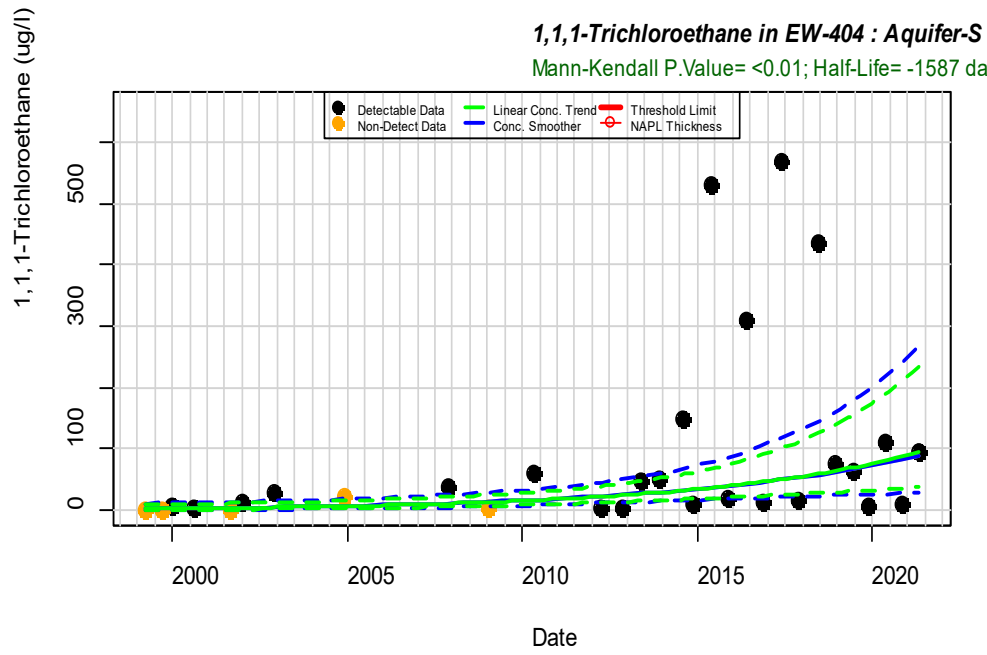
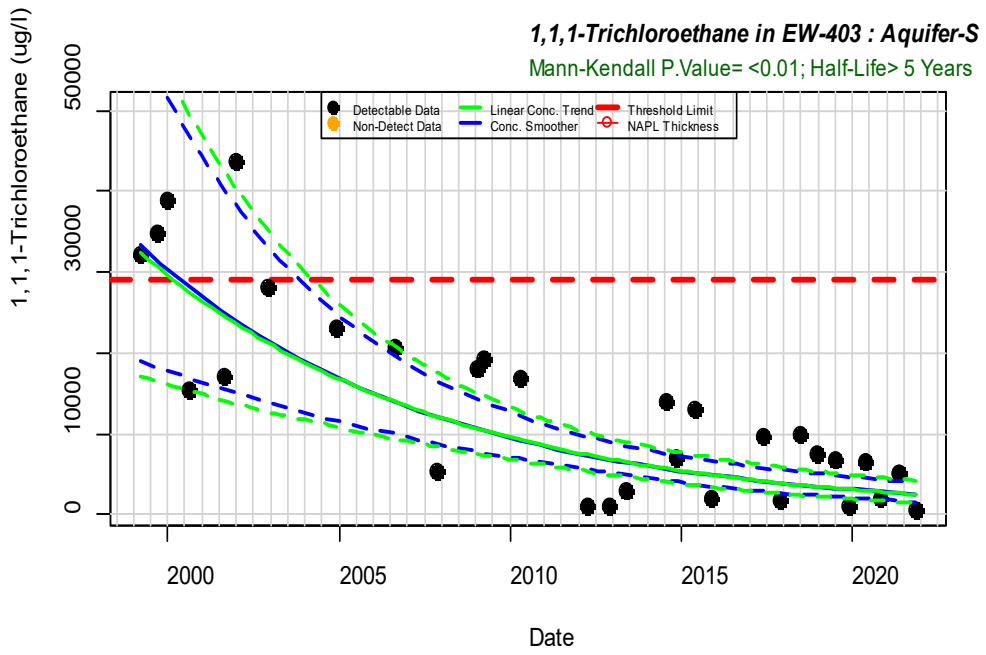
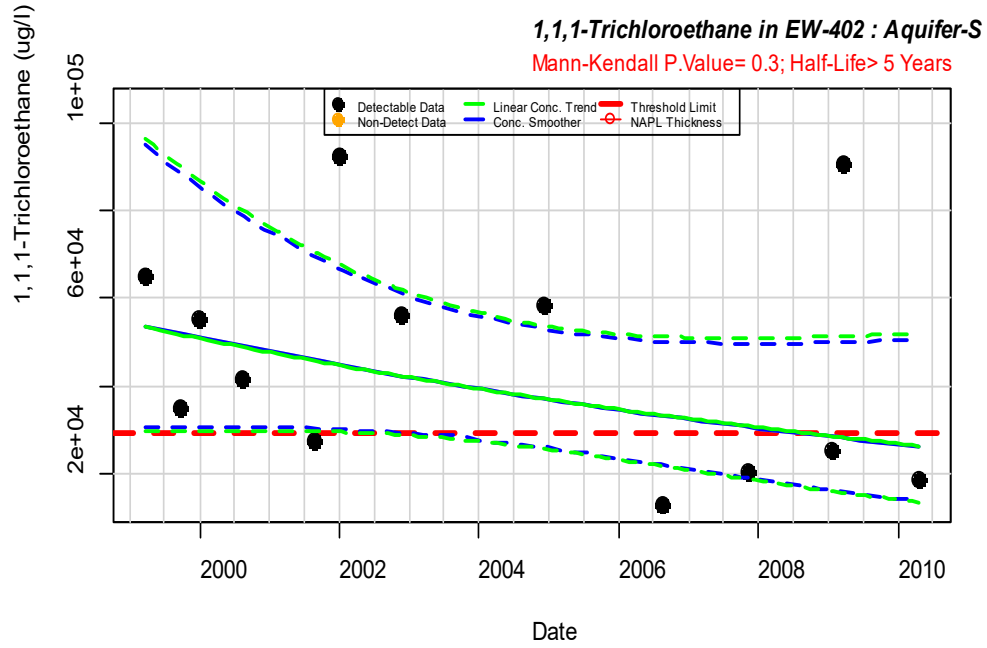
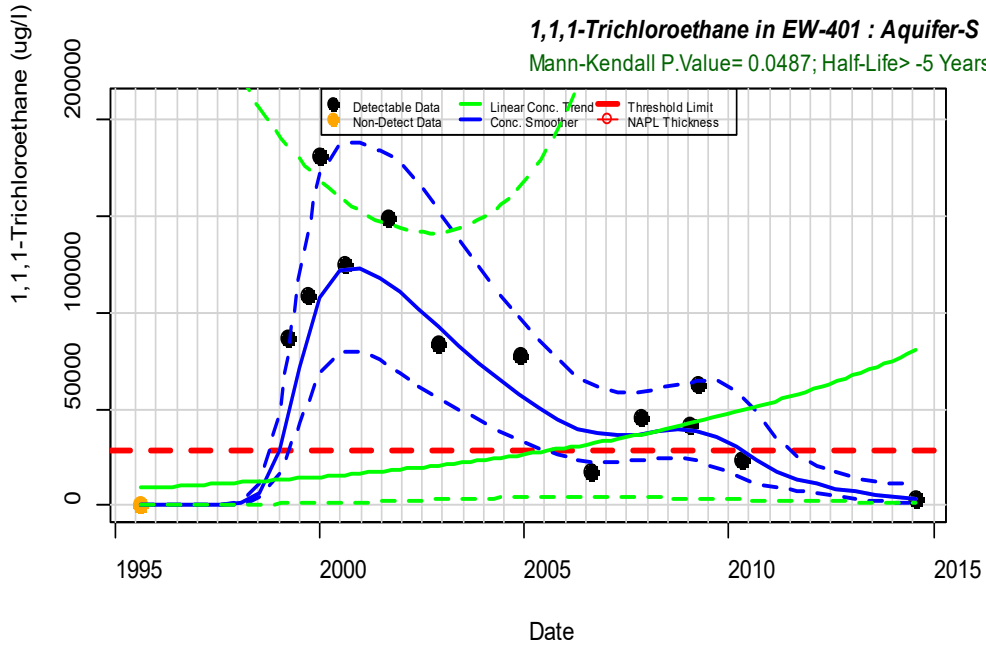


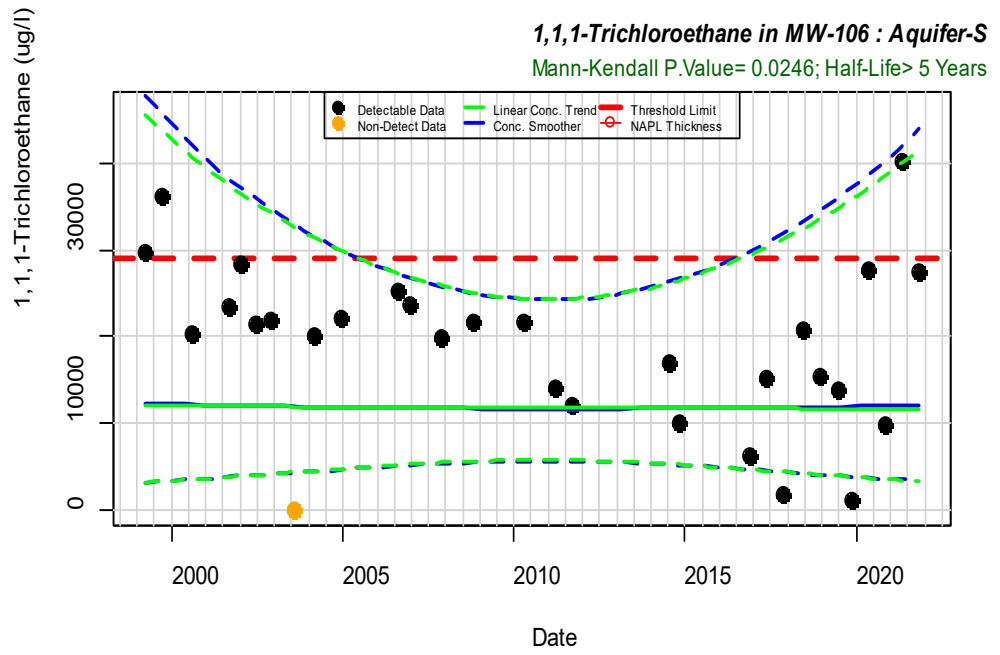
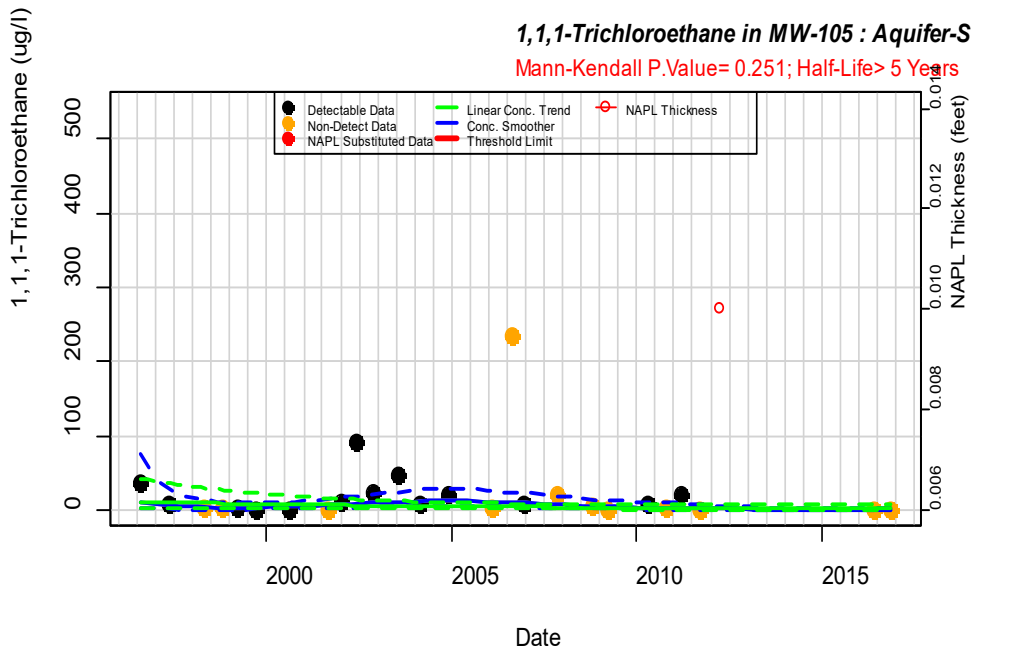
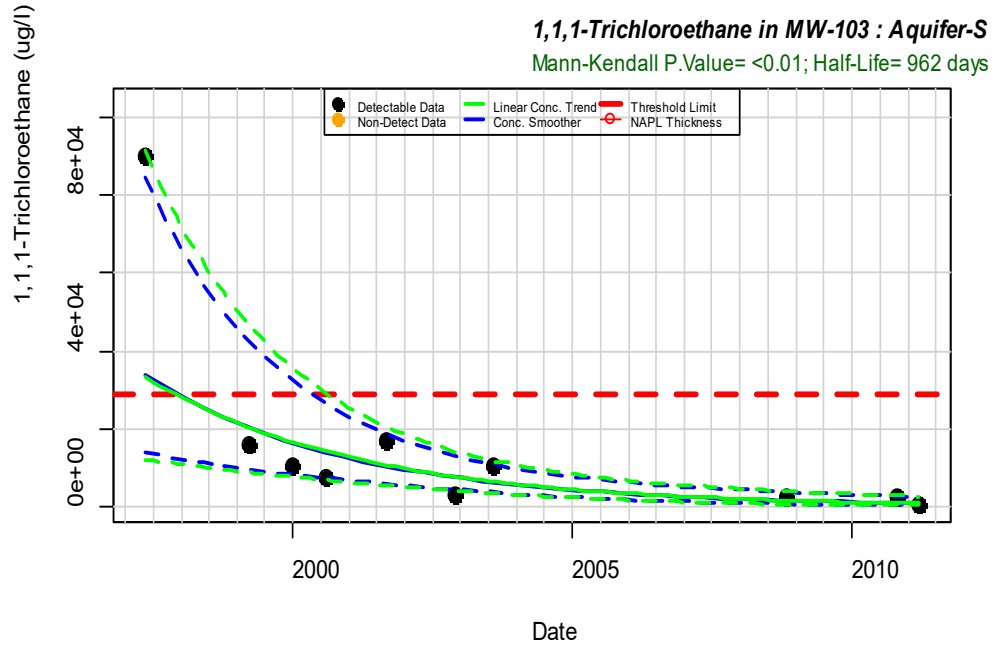
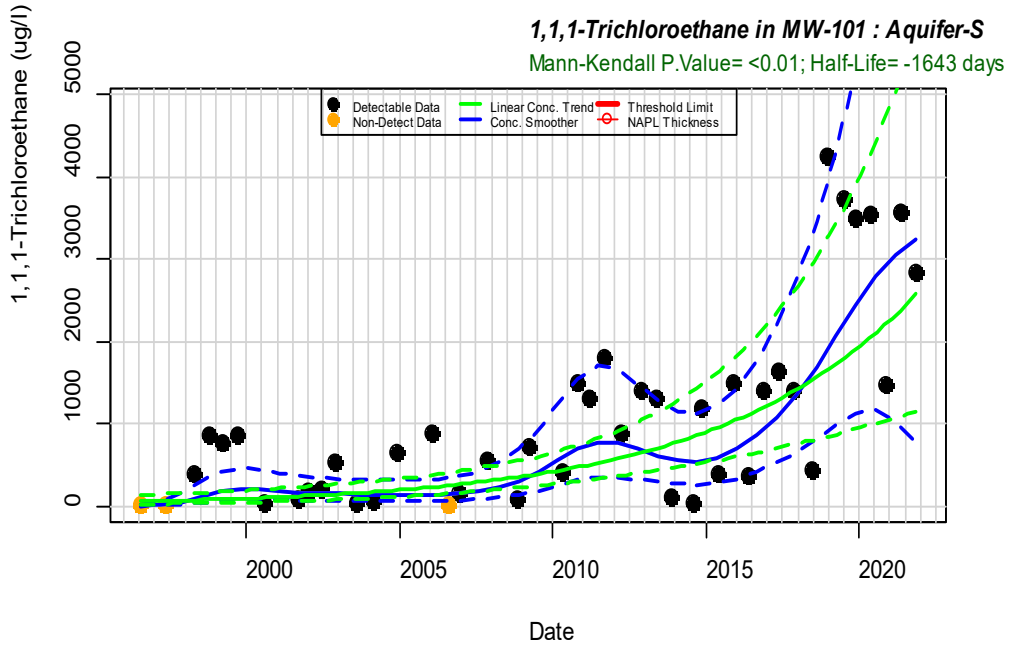
1,1,1-Trichloroethane in PZ-19 : Aquifer-S

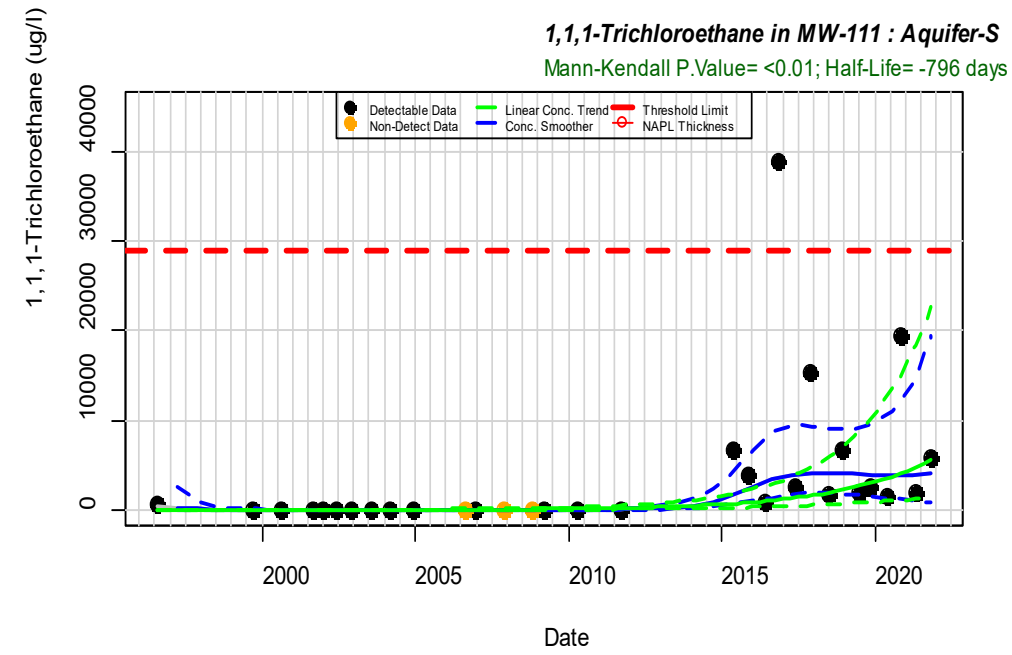
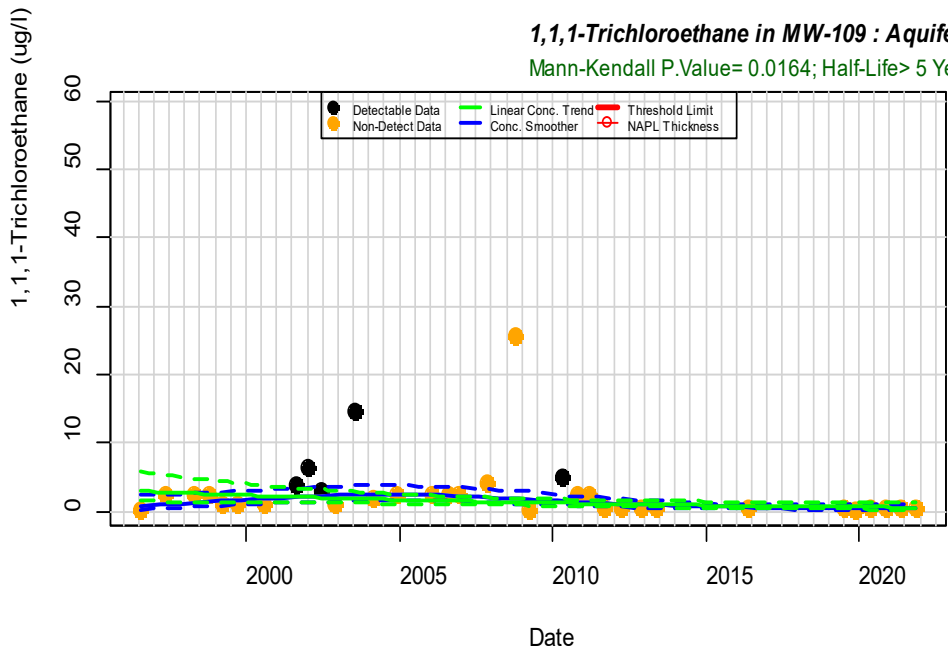
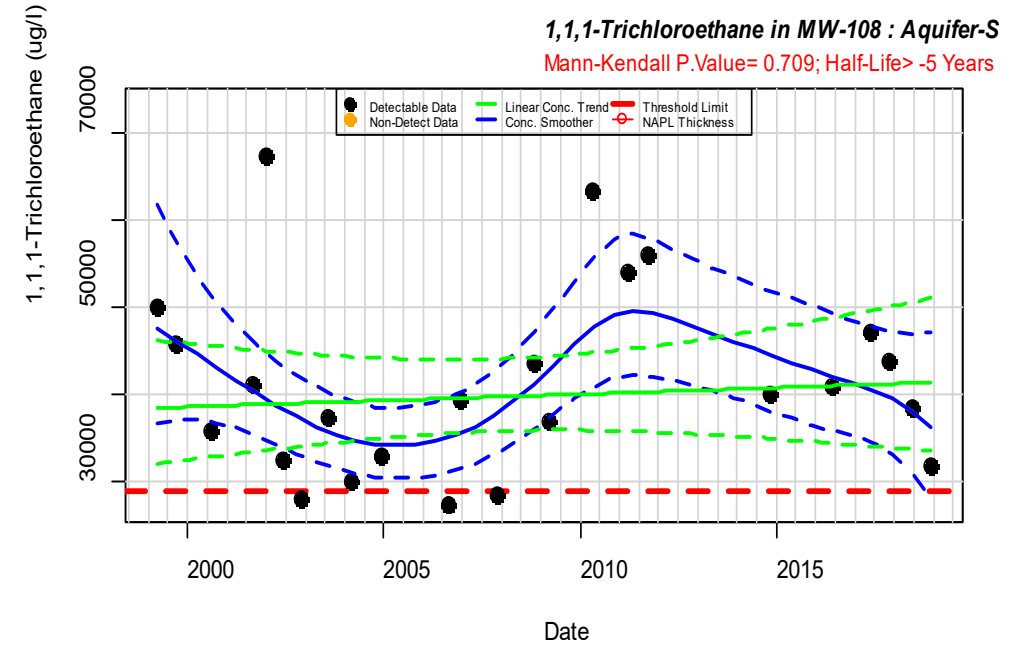
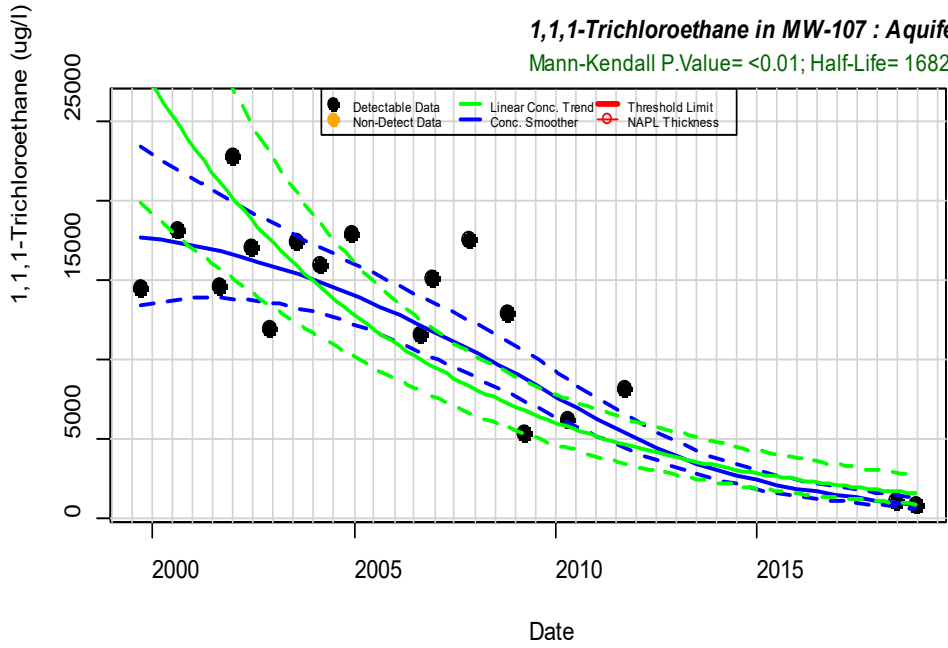


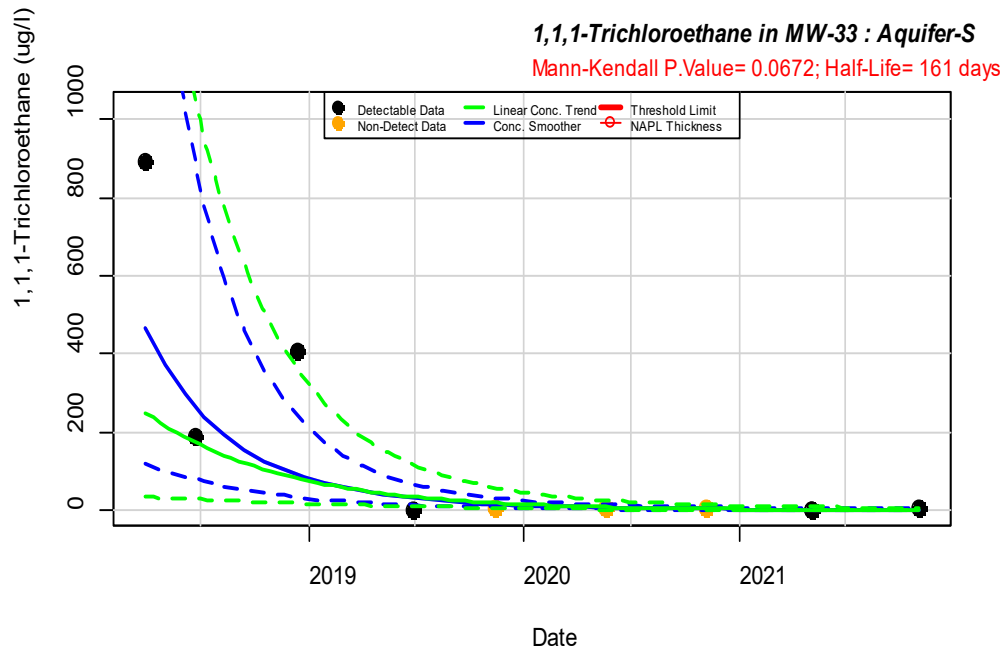
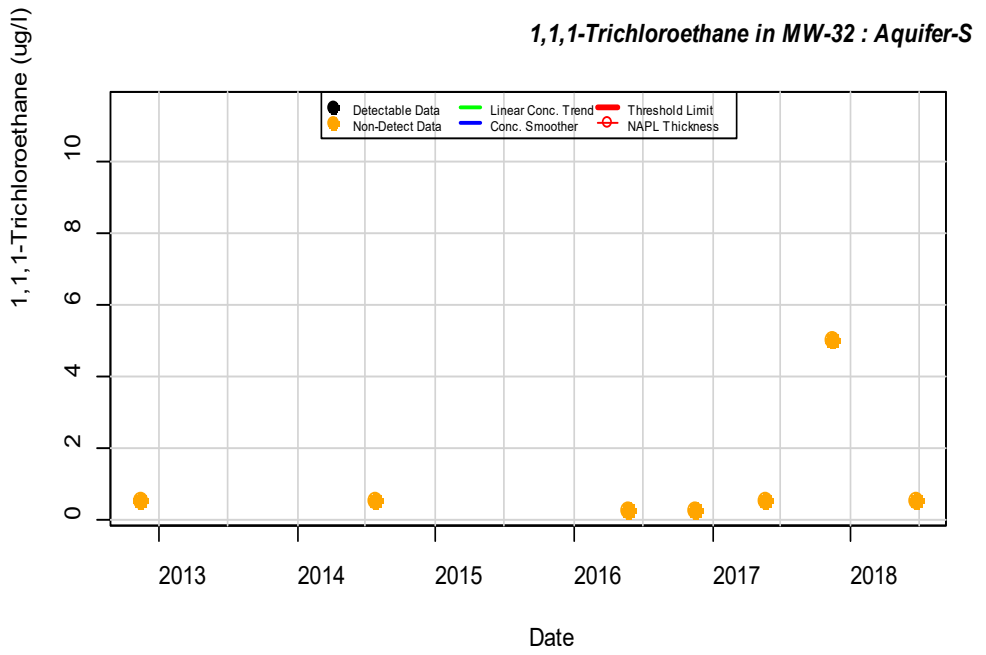
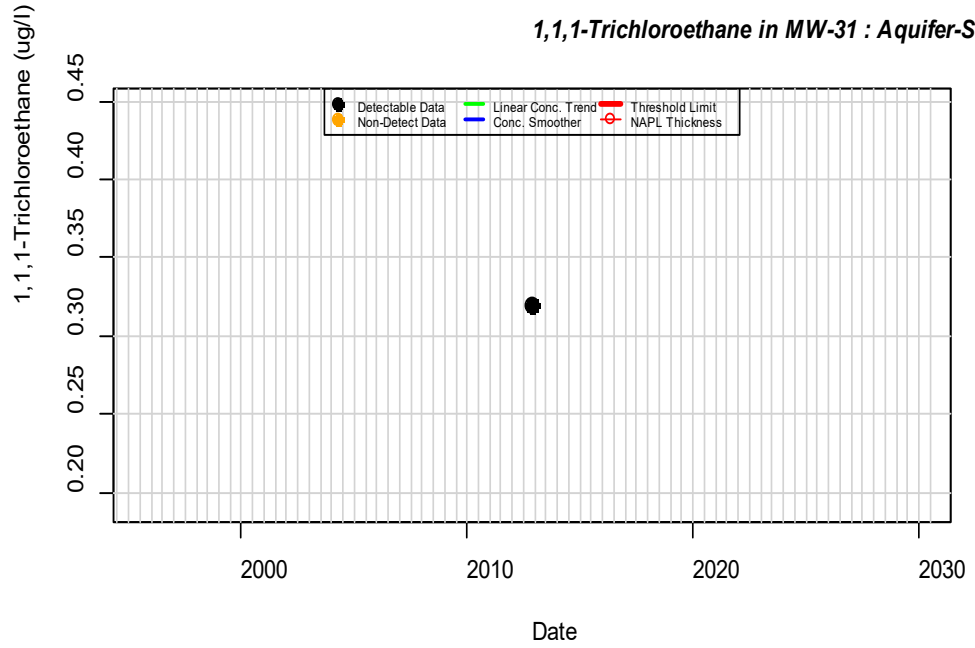
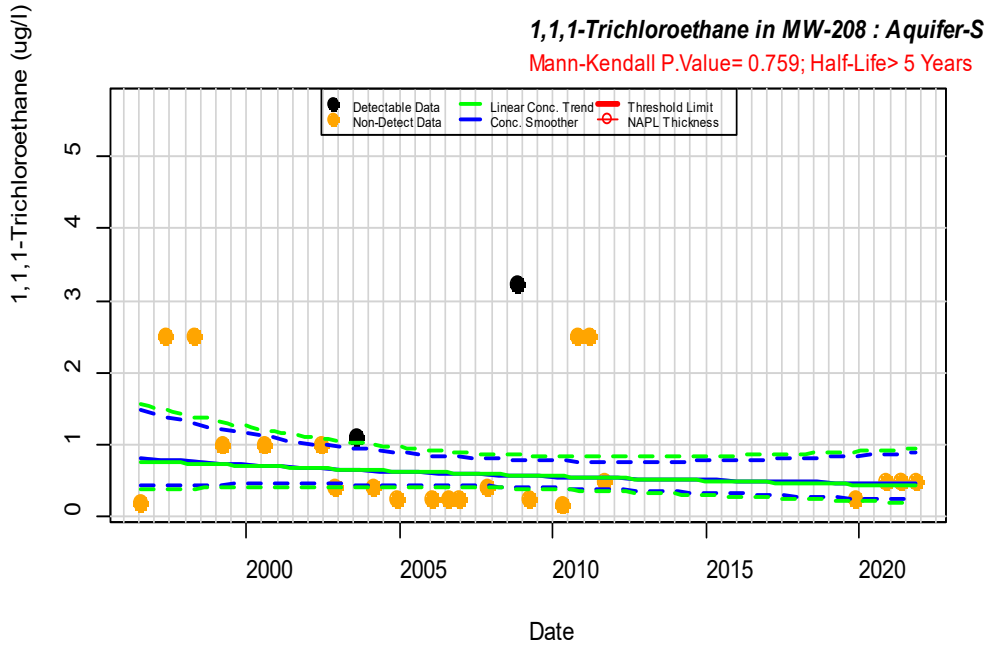
1,1,1-Trichloroethane in RX-02 : Aquifer-S



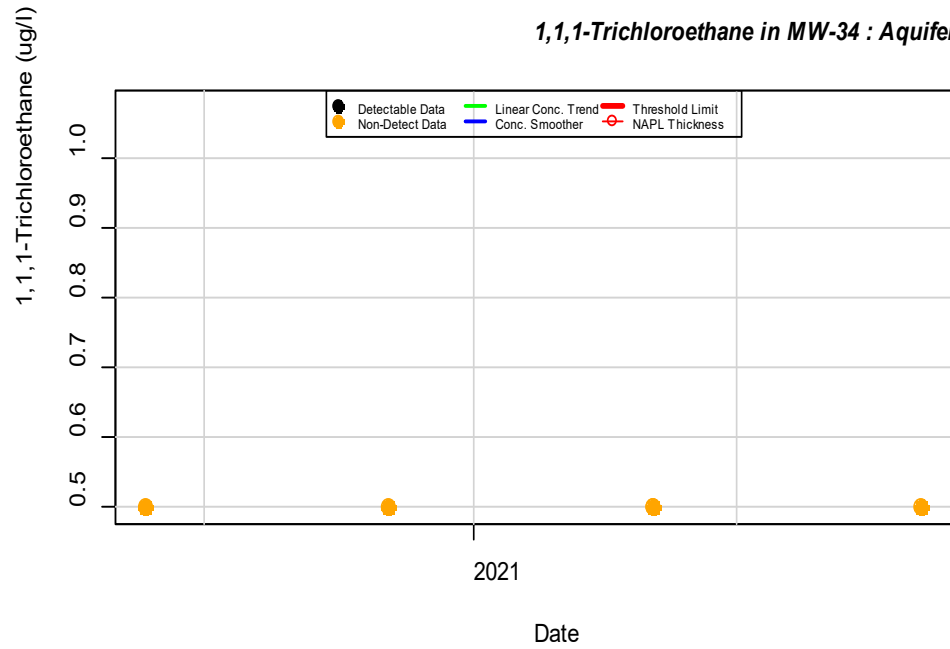




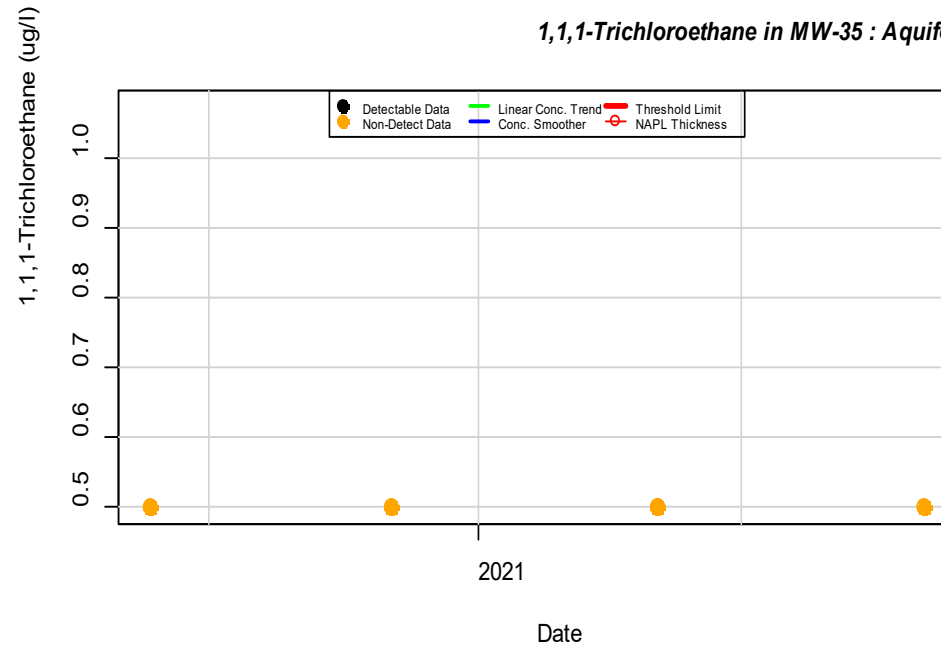




1,1,1-Trichloroethane in MW-34 : Aquifer-S

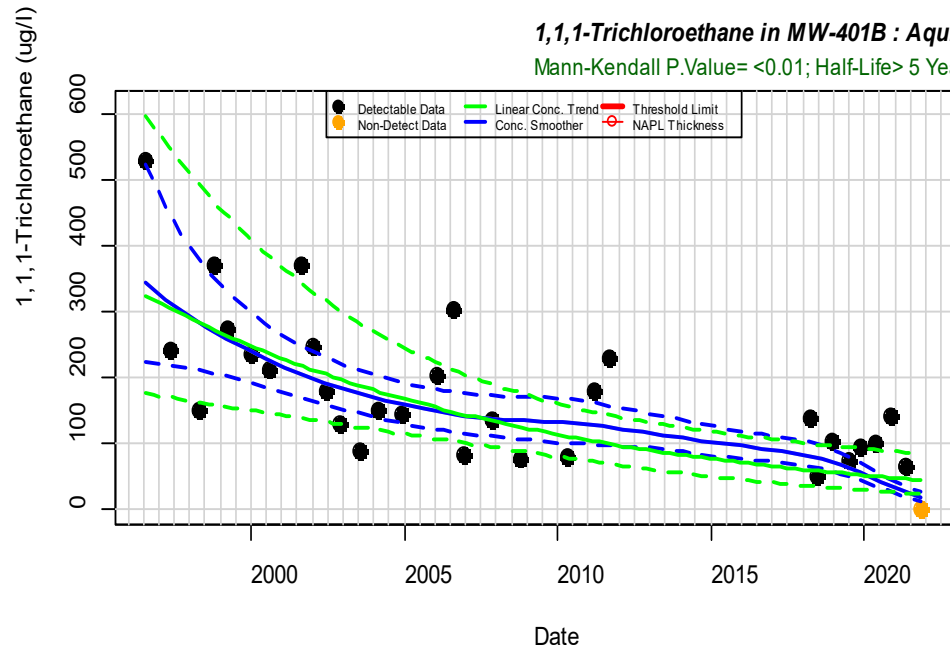


1,1,1-Trichloroethane in MW-35 : Aquifer-S



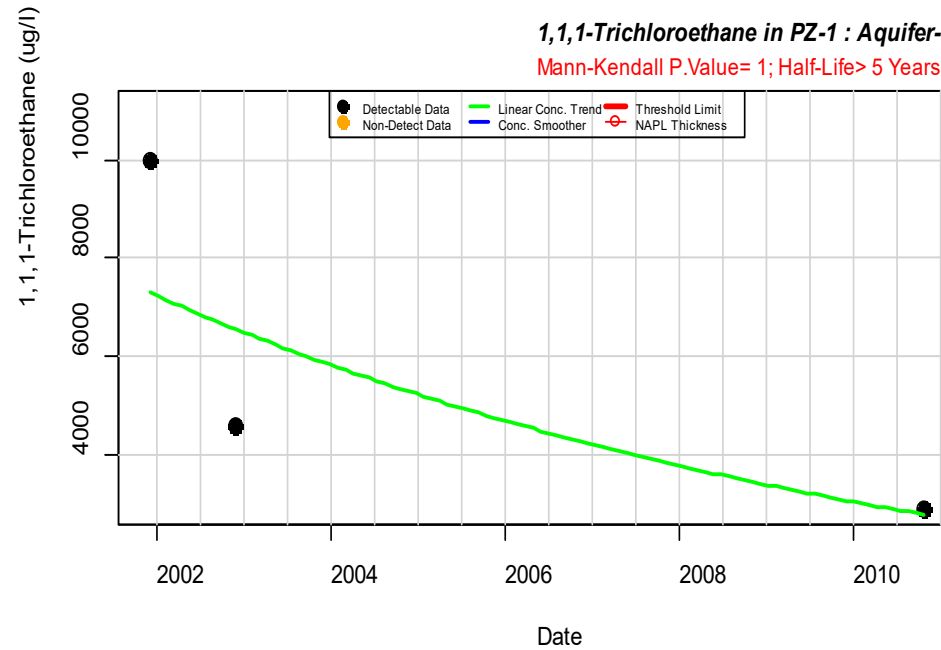
1,1,1-Trichloroethane in MW-401B : Aquifer-S

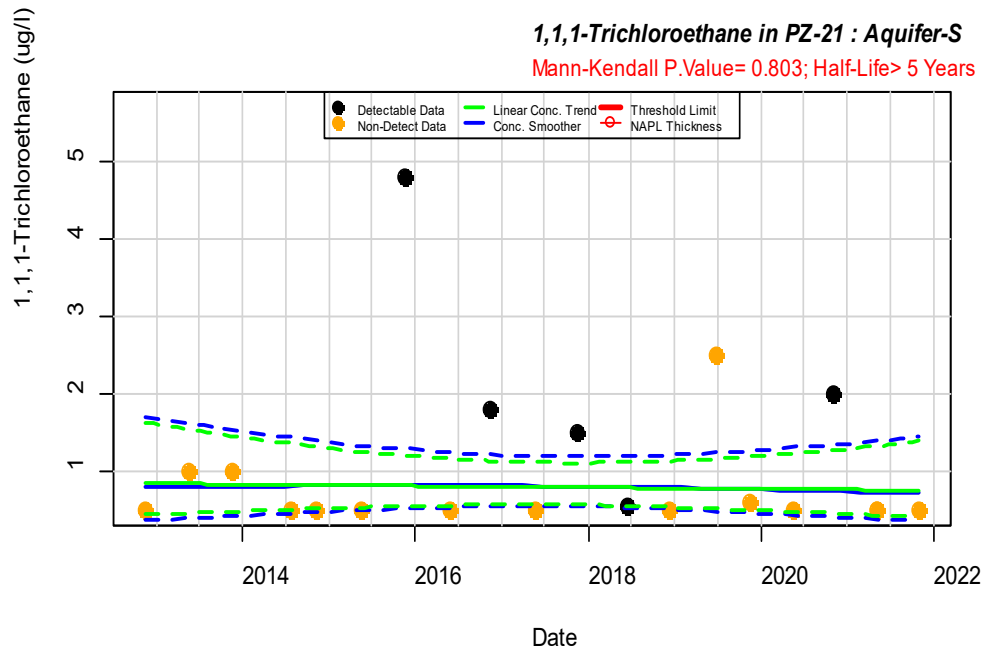
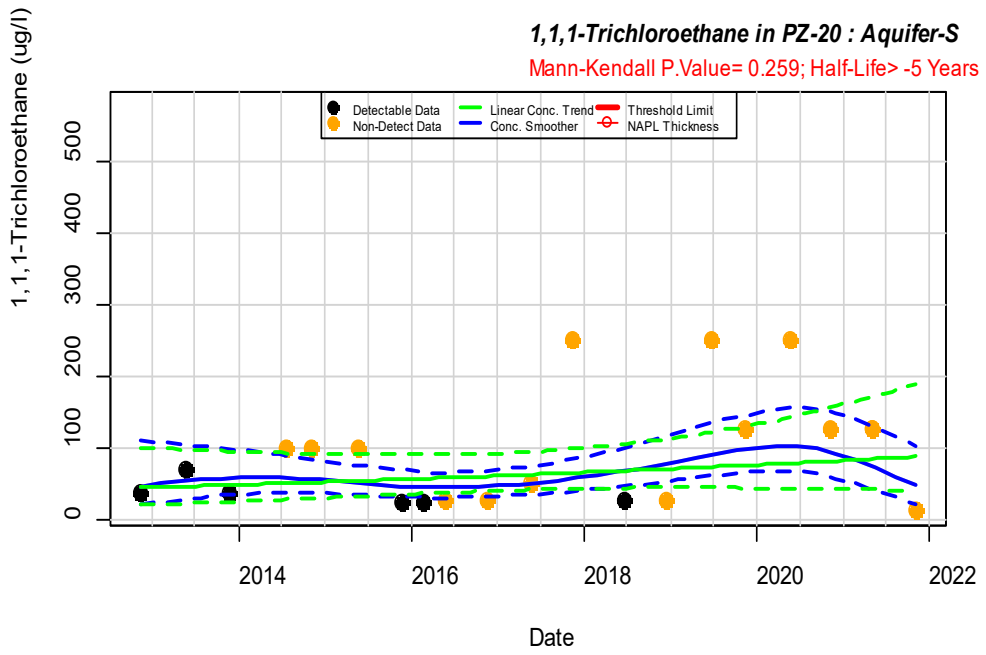
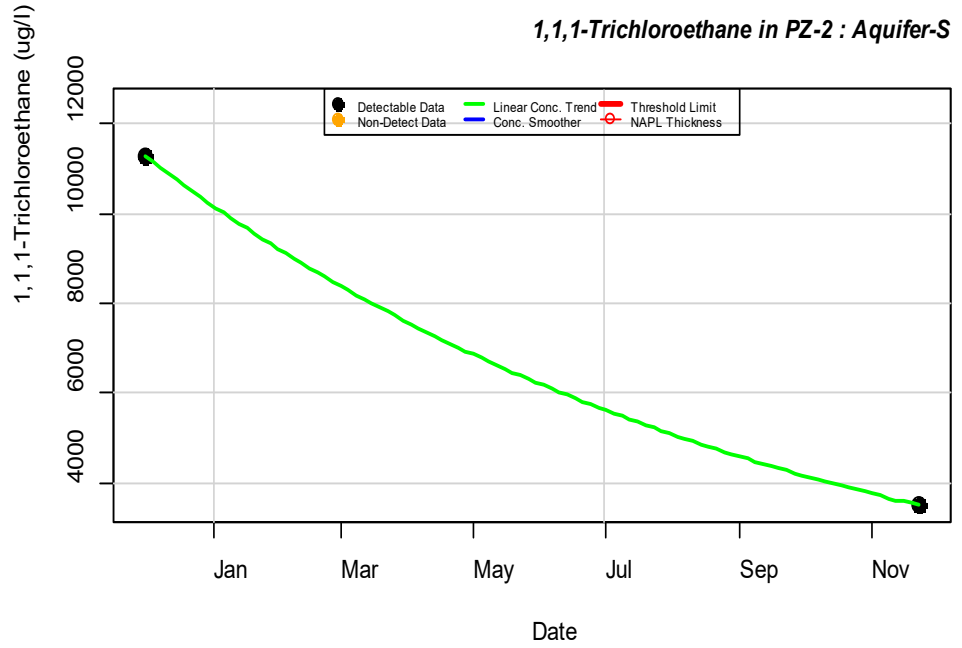
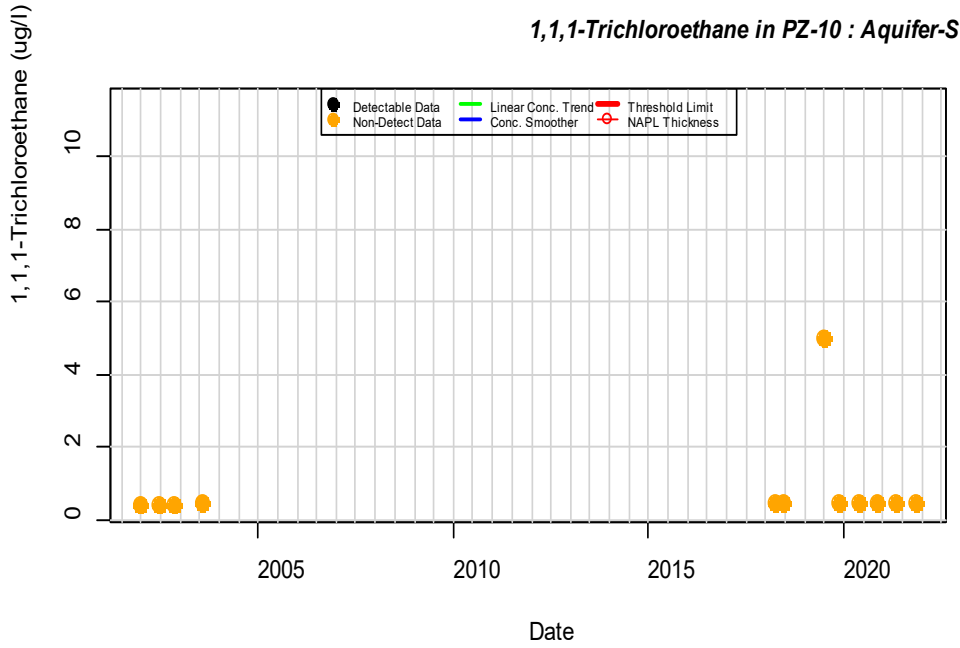
Mann-Kendall P.Value= <0.01; Half-Life> 5 Years



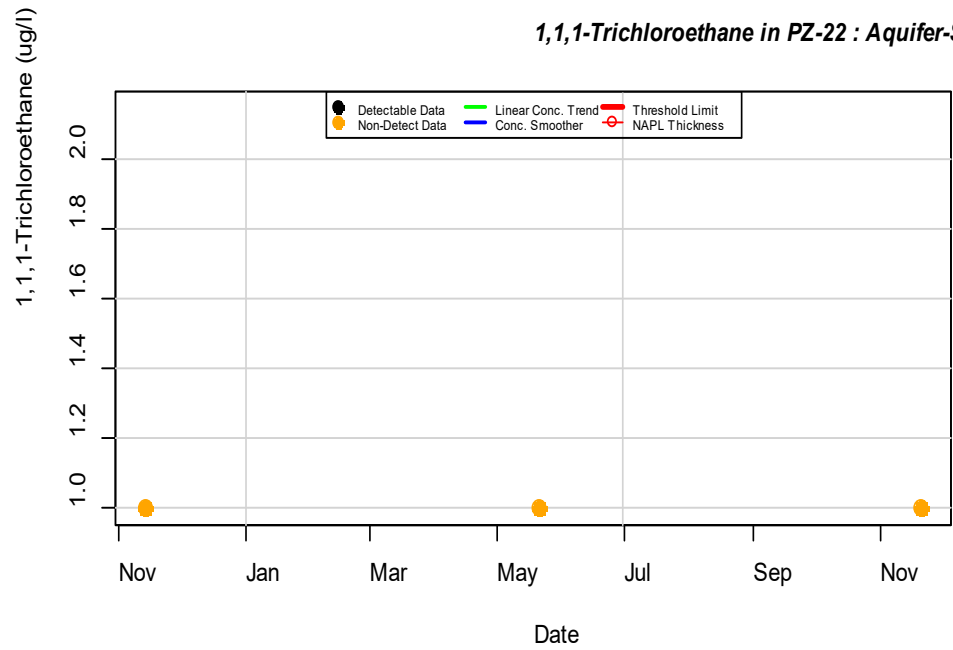
1,1,1-Trichloroethane in PZ-1 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

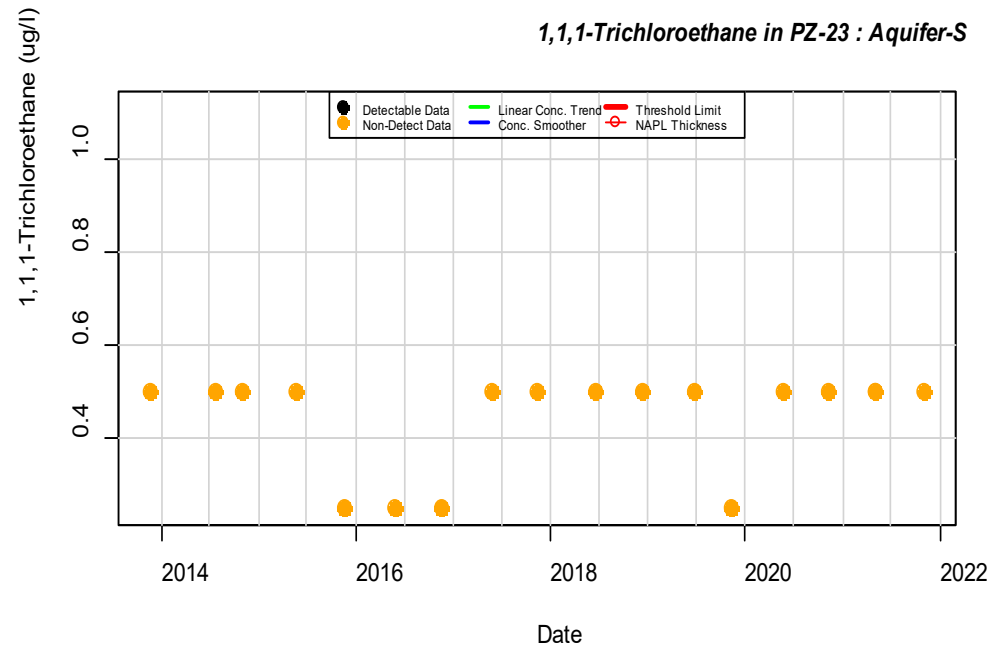




1,1,1-Trichloroethane in PZ-22 : Aquifer-S

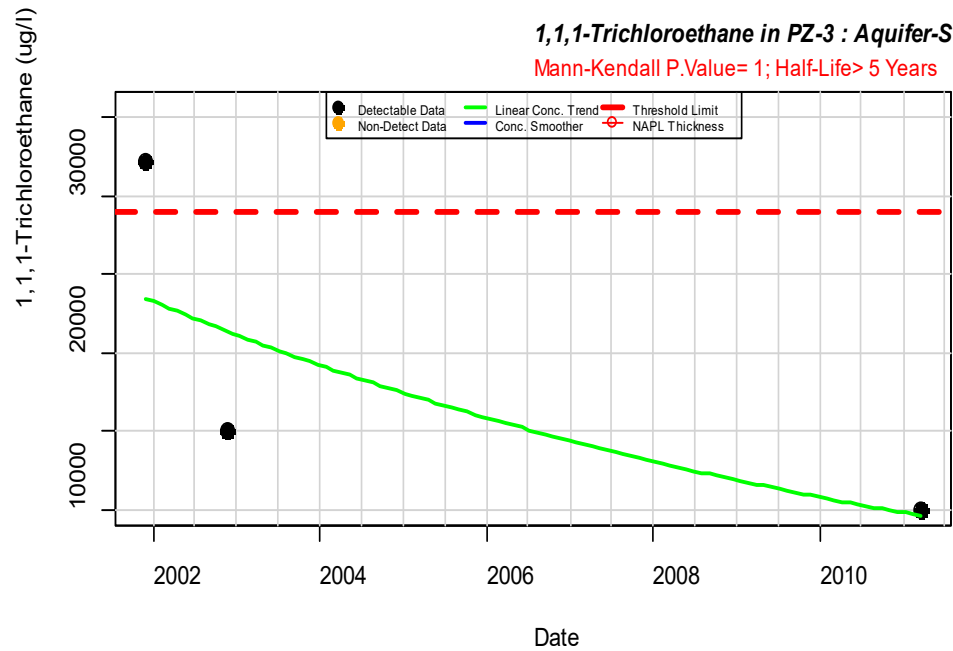


1,1,1-Trichloroethane in PZ-23 : Aquifer-S



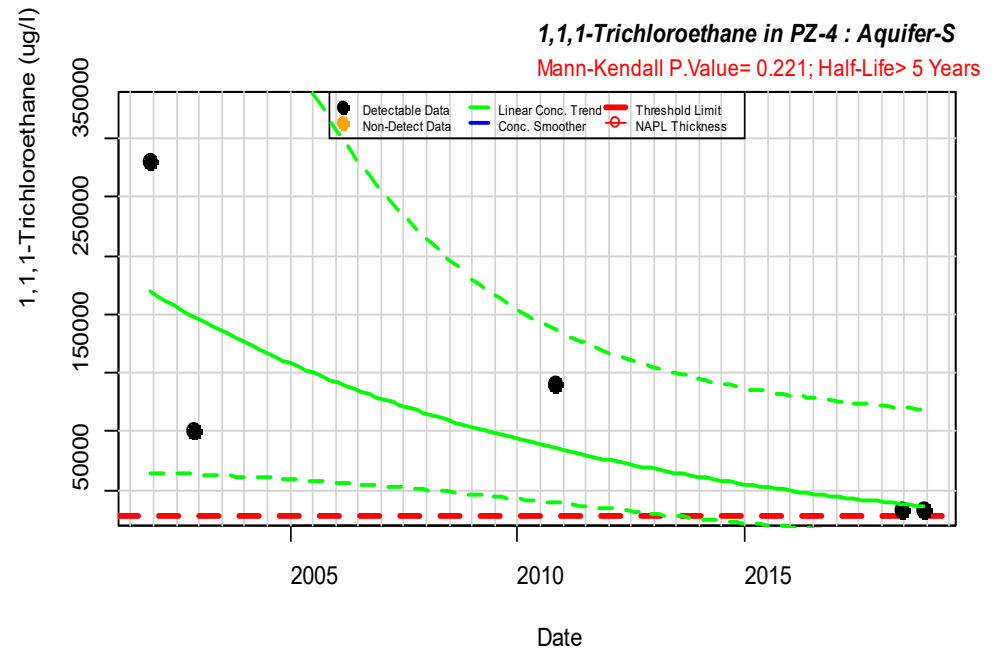
1,1,1-Trichloroethane in PZ-3 : Aquifer-S

Mann-Kendall P.Value= 1; Half-Life> 5 Years

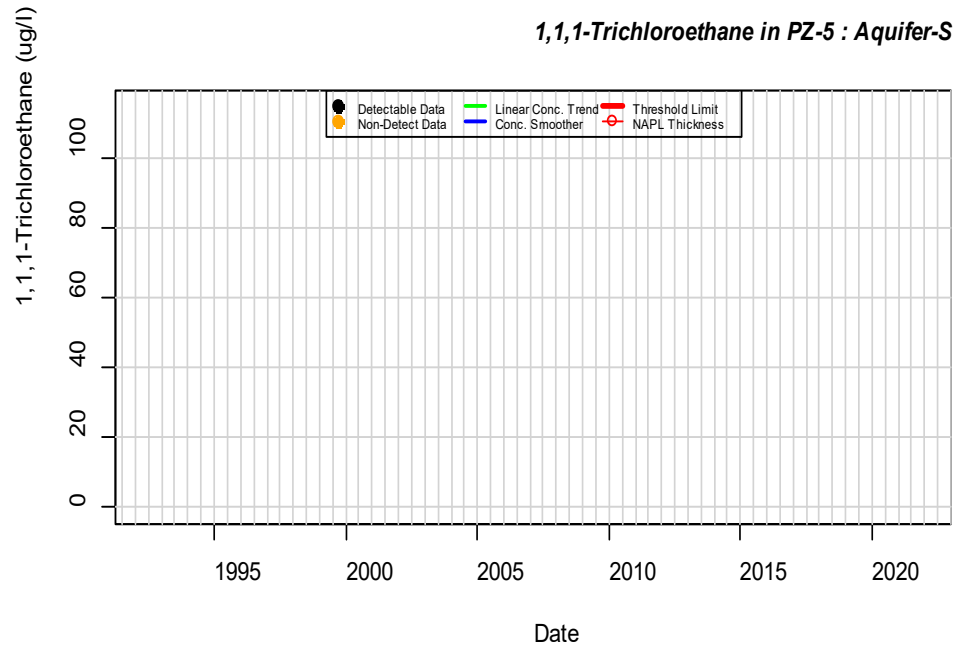


1,1,1-Trichloroethane in PZ-4 : Aquifer-S

Mann-Kendall P.Value= 0.221; Half-Life> 5 Years

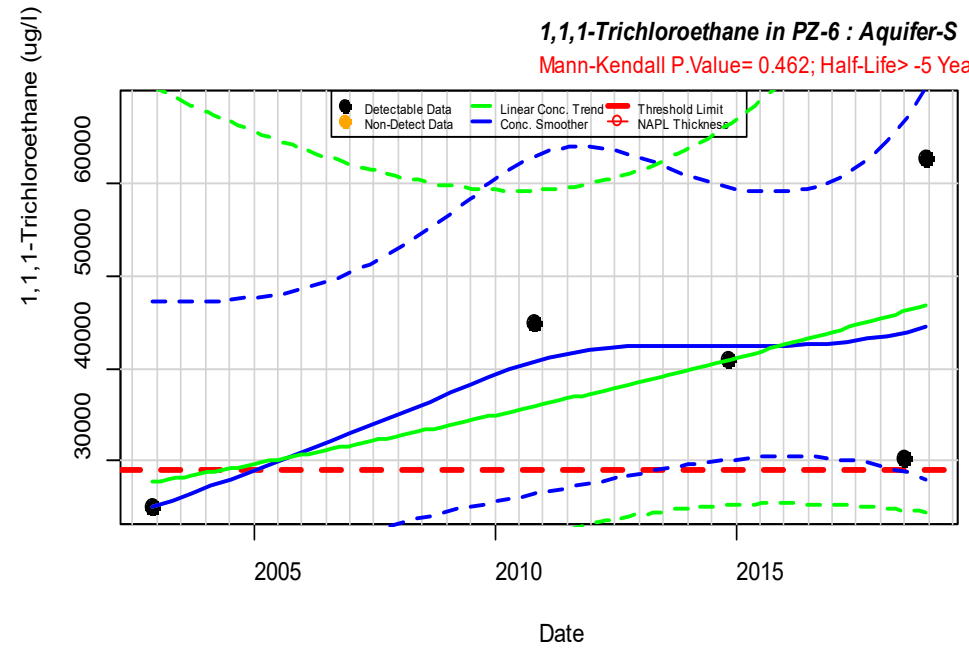


1,1,1-Trichloroethane in PZ-5 : Aquifer-S



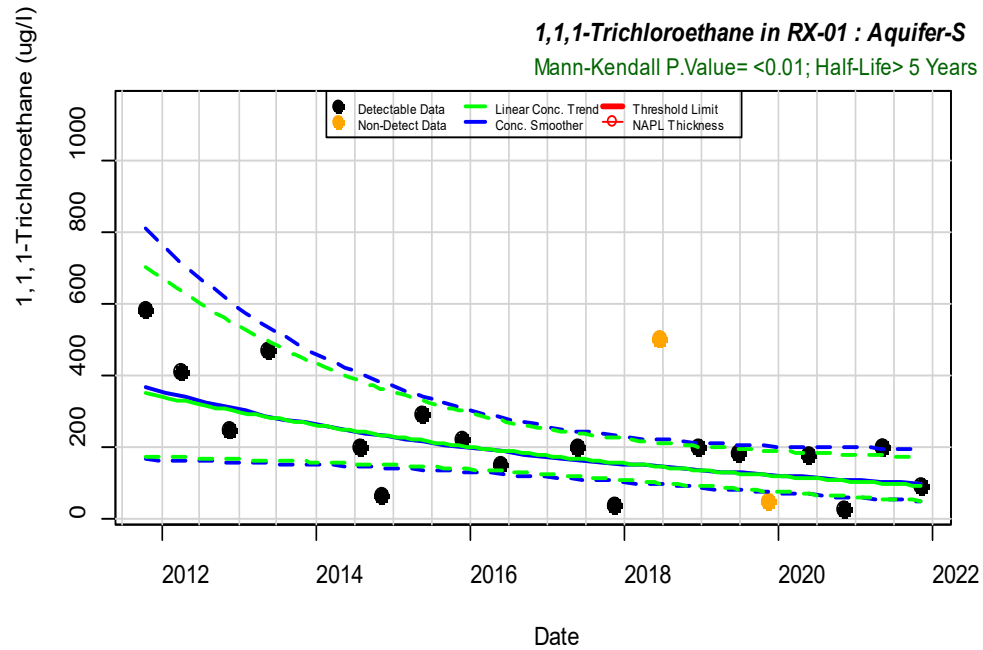
1,1,1-Trichloroethane in PZ-6 : Aquifer-S

Mann-Kendall P.Value= 0.462; Half-Life> -5 Years



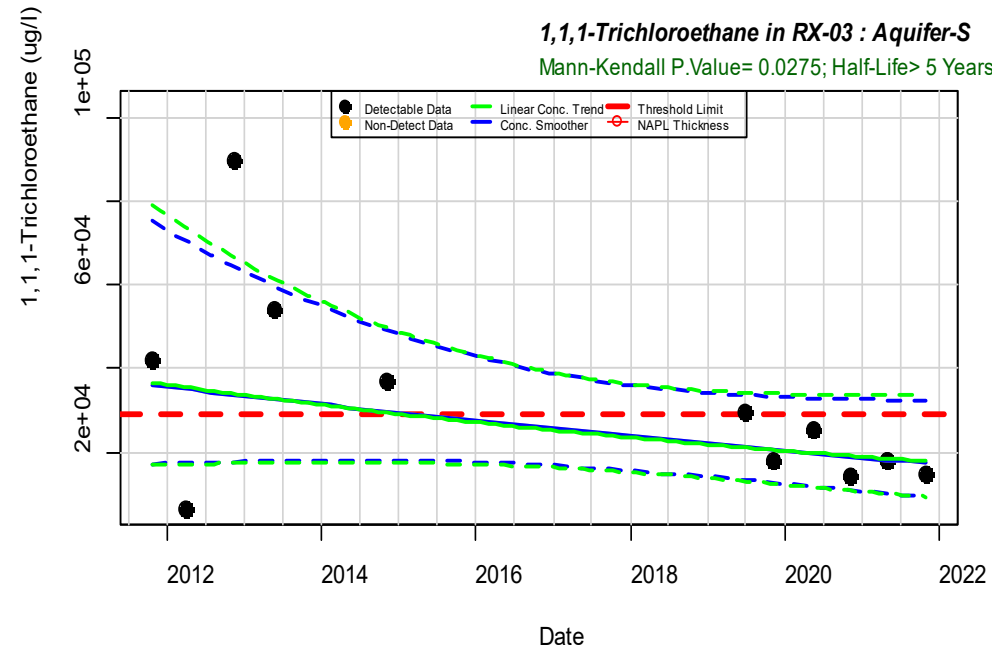
1,1,1-Trichloroethane in RX-01 : Aquifer-S

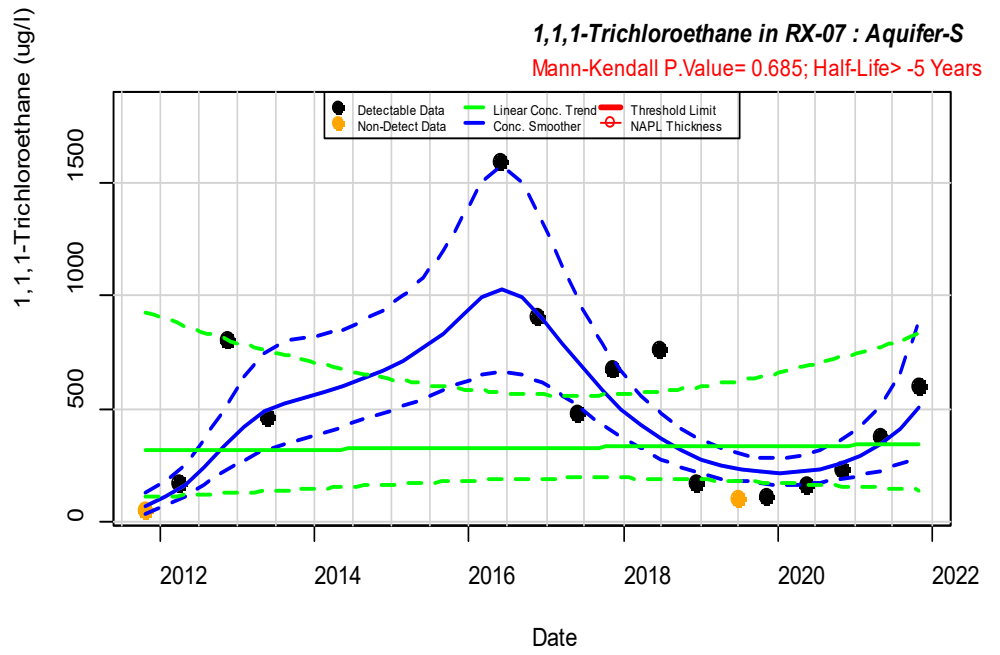
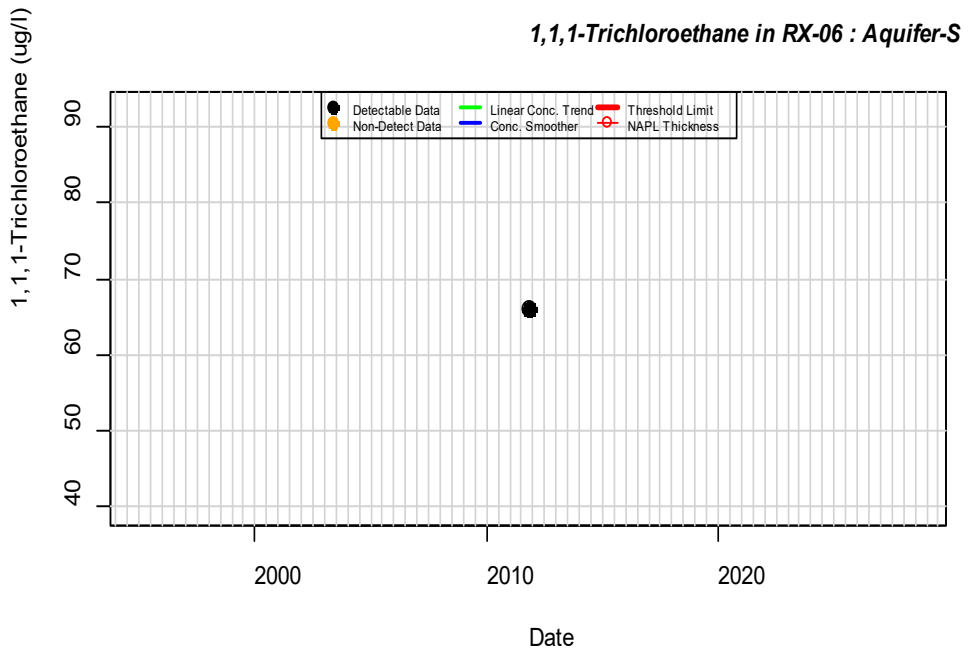
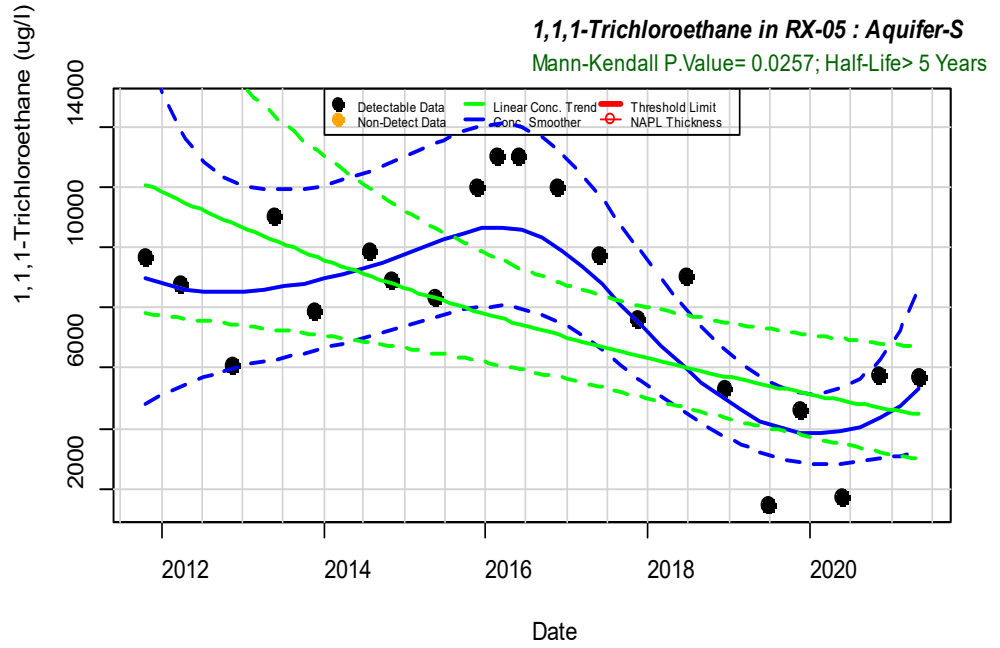
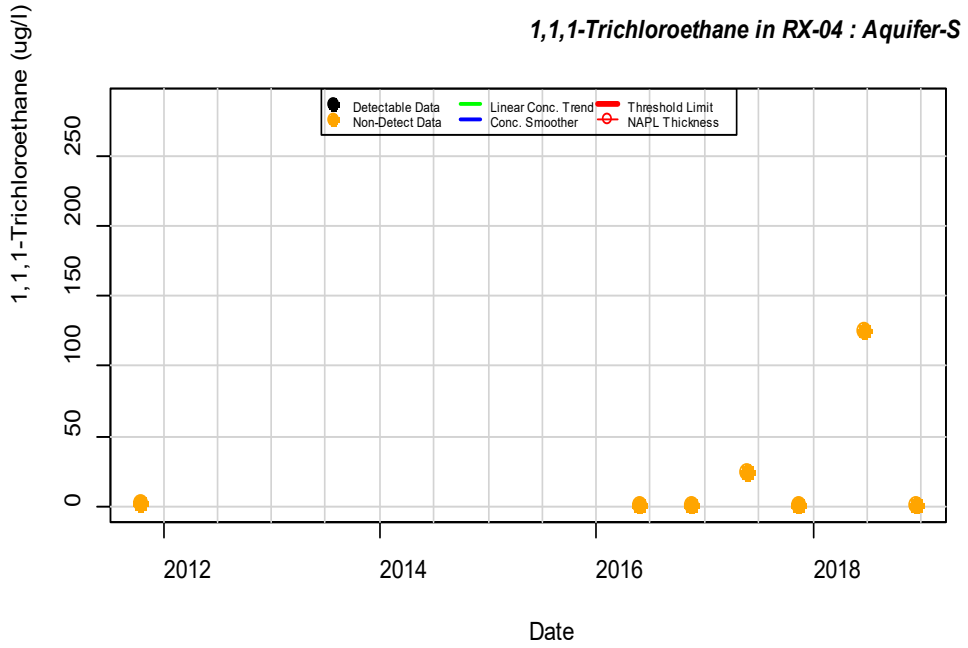
Mann-Kendall P.Value= <0.01; Half-Life> 5 Years

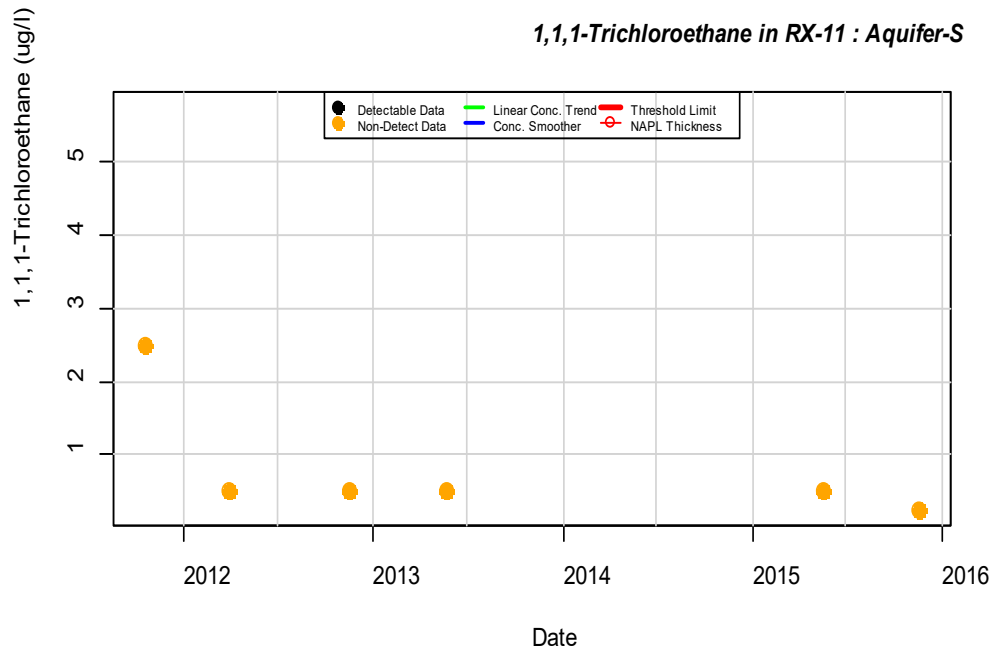
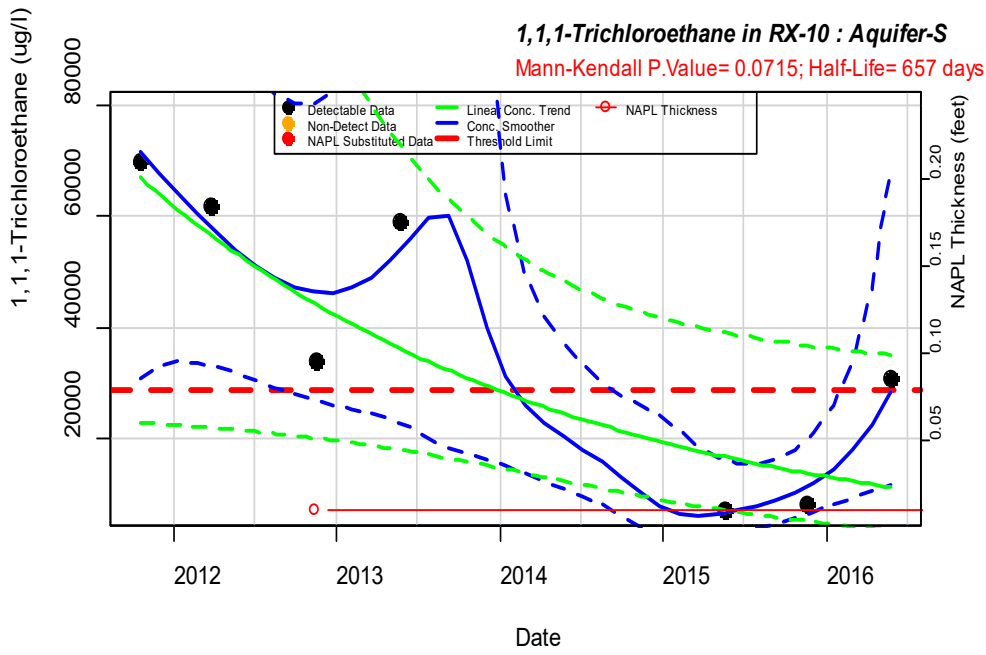
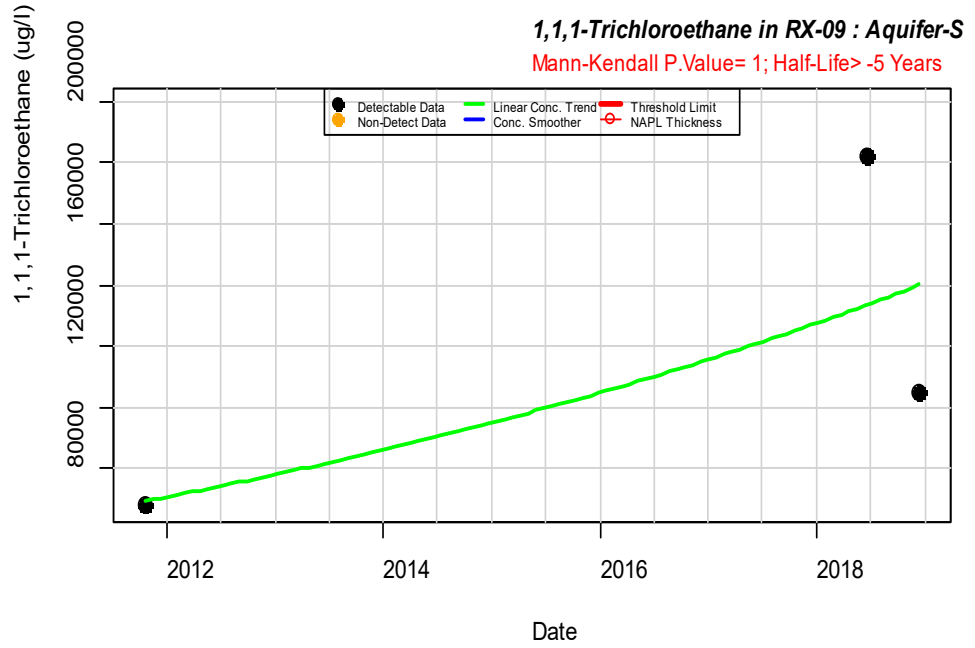
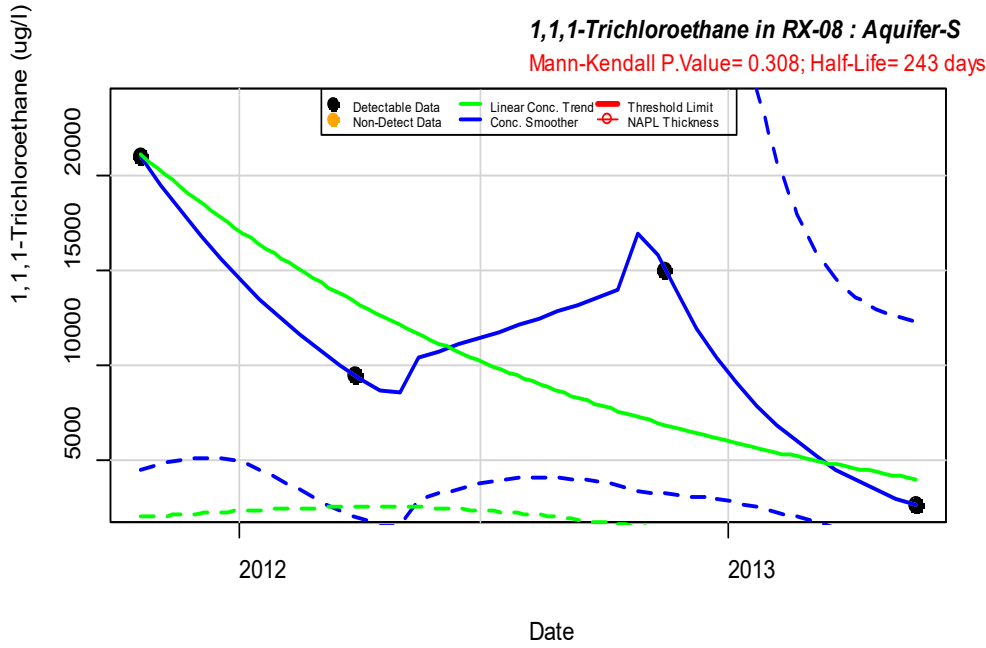


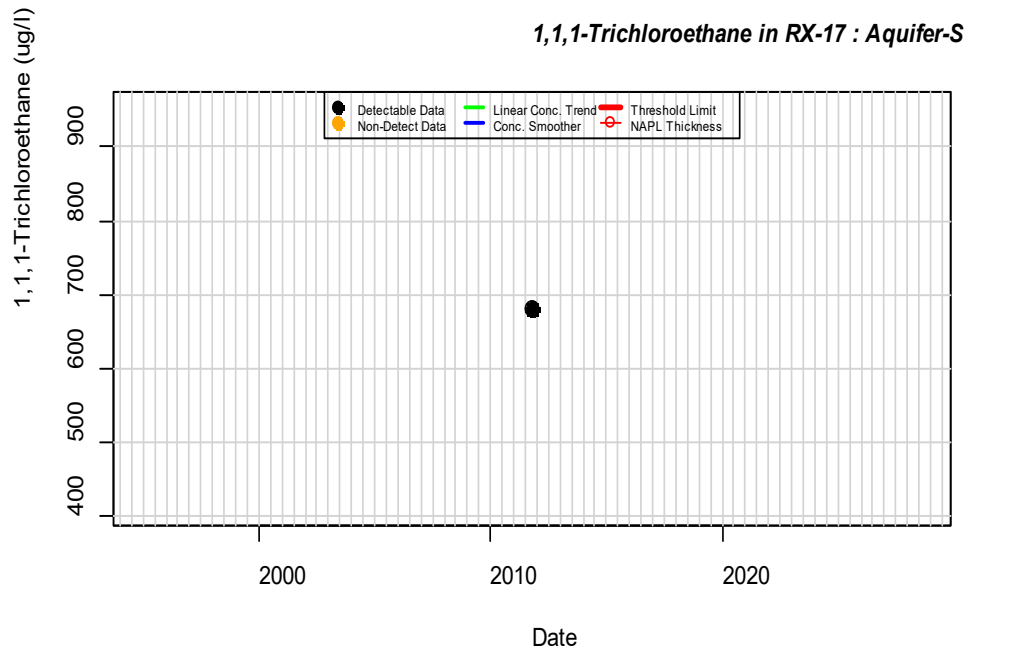
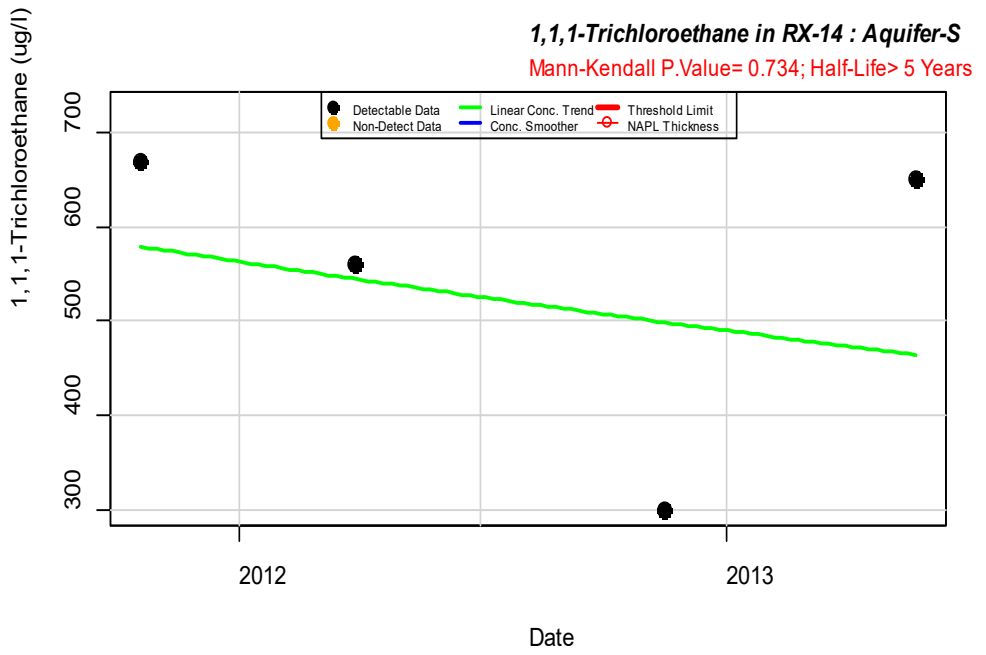
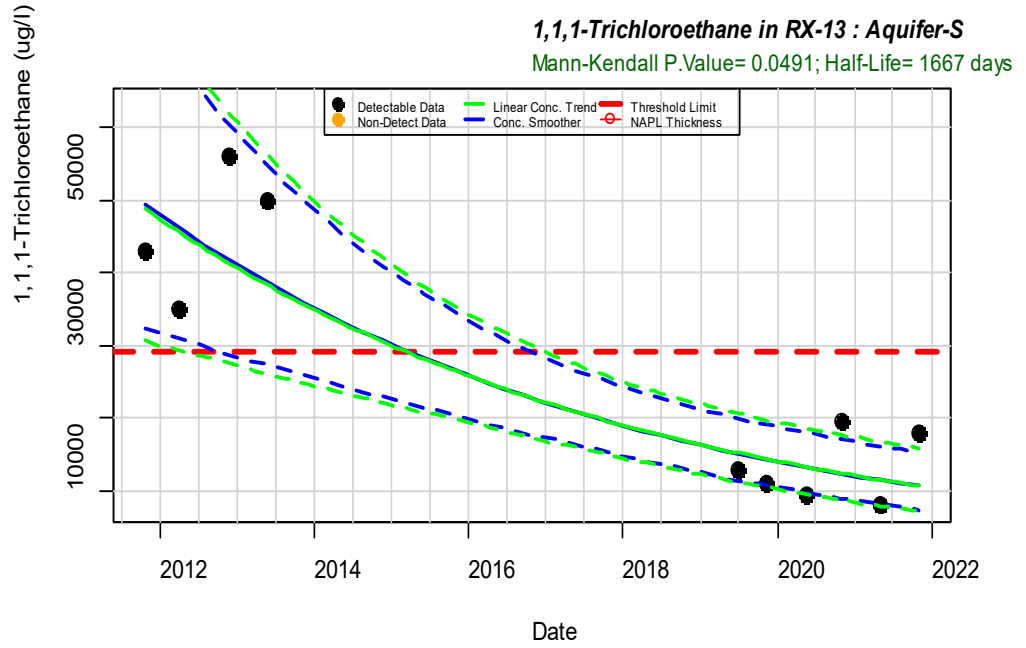
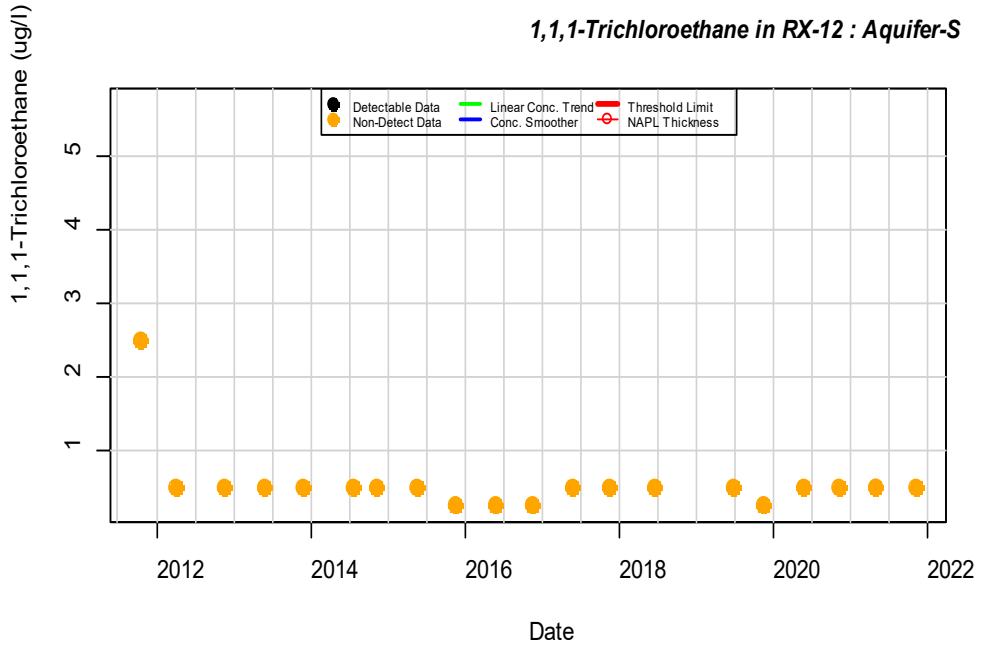
1,1,1-Trichloroethane in RX-03 : Aquifer-S

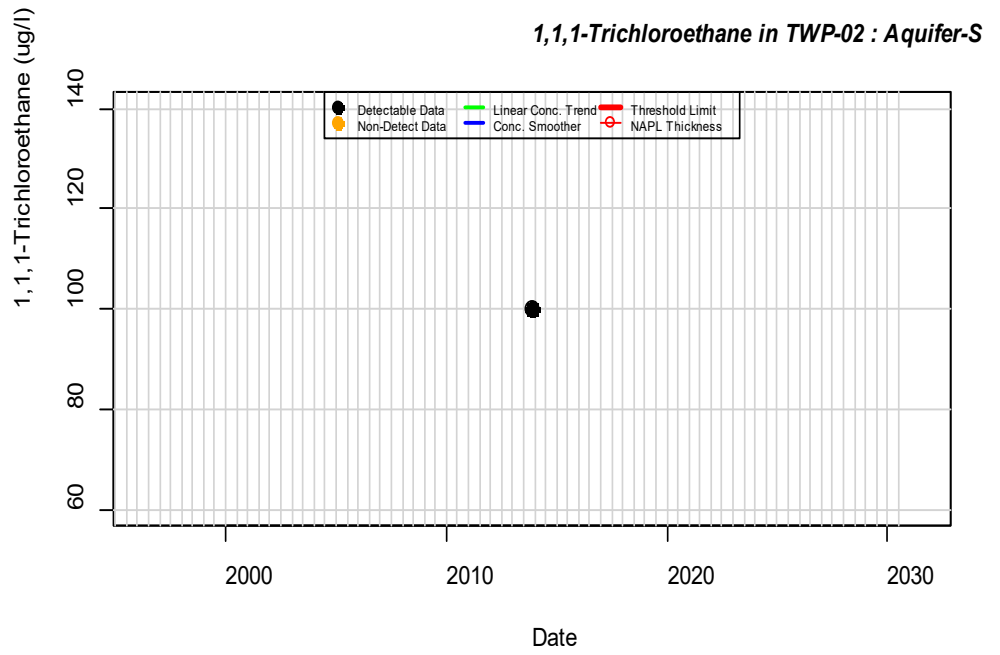
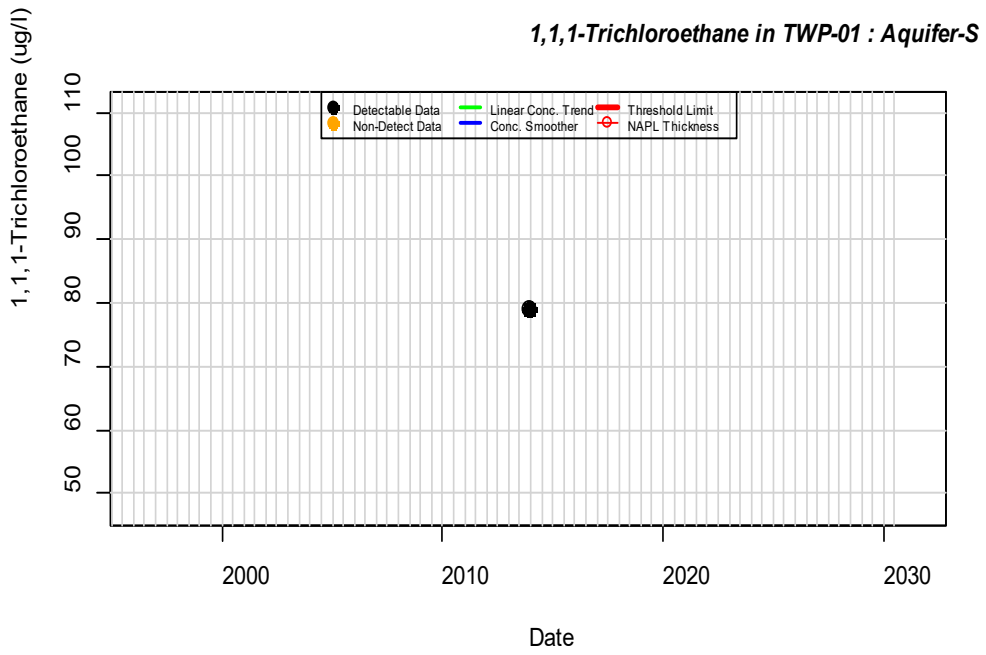
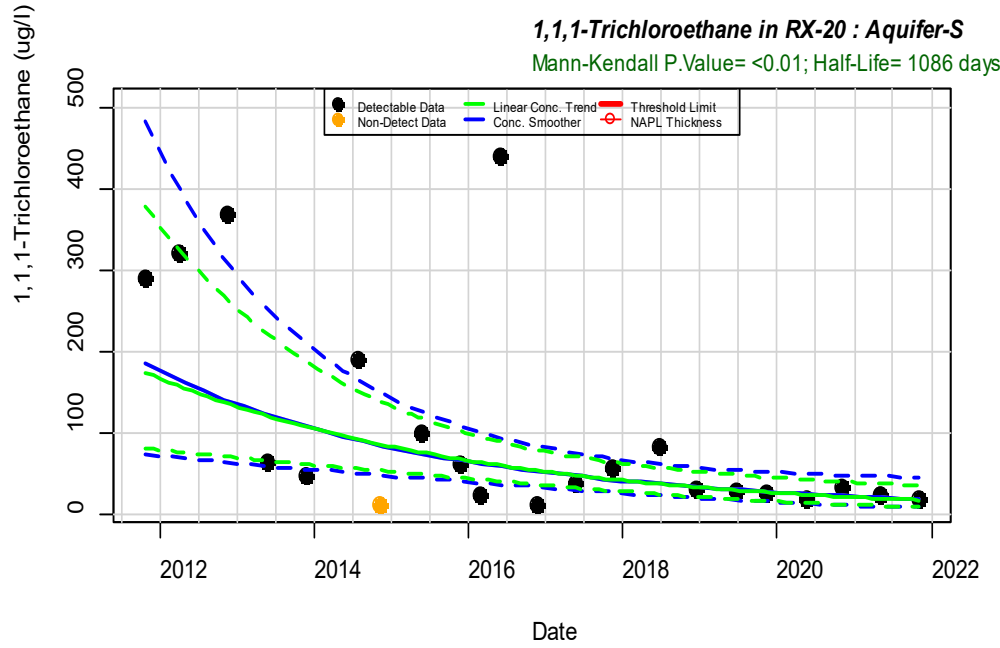
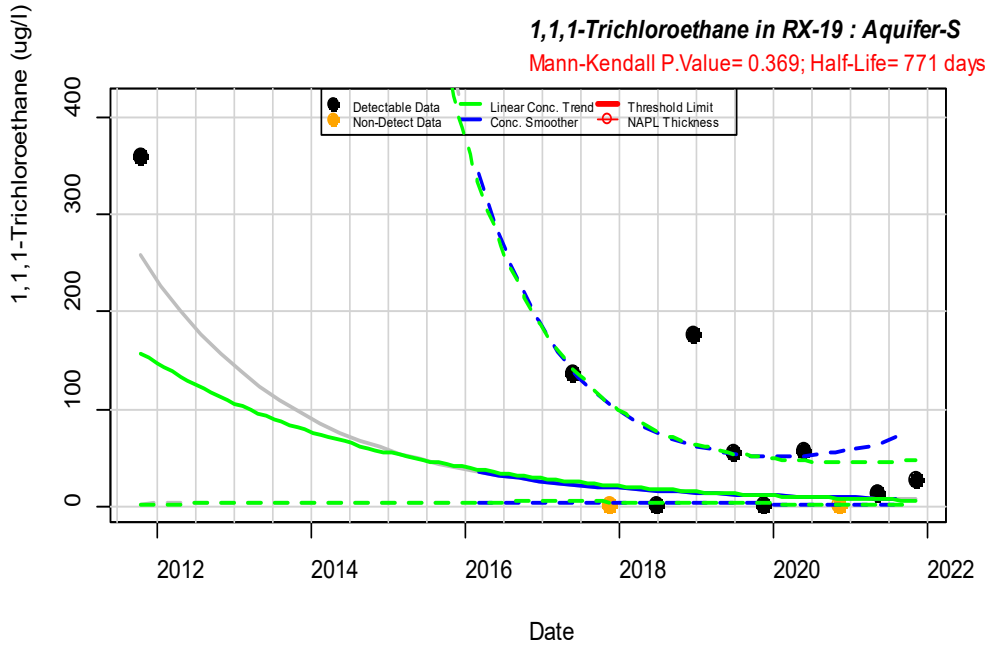
Mann-Kendall P.Value= 0.0275; Half-Life> 5 Years



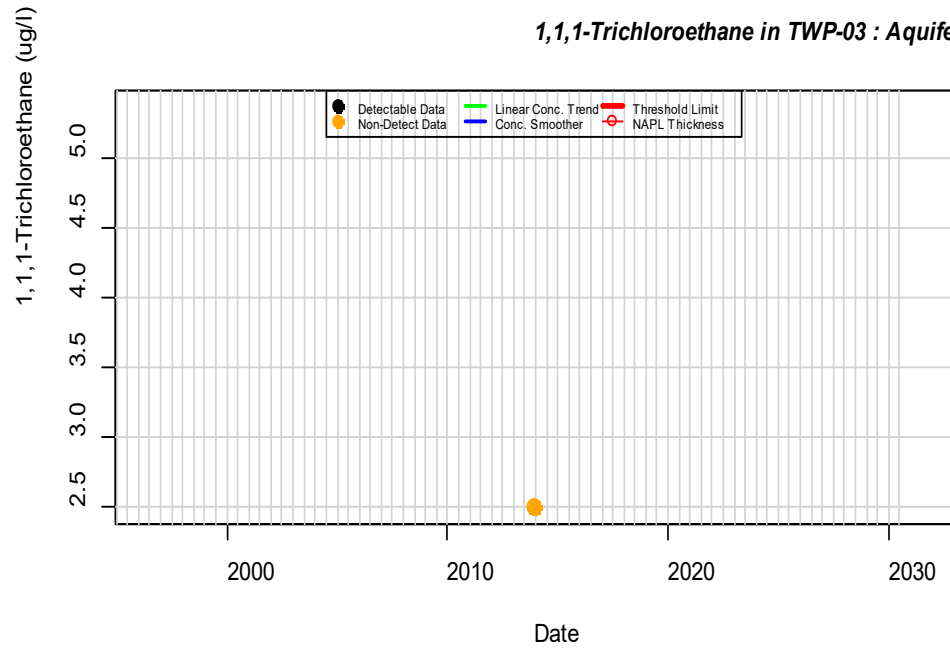




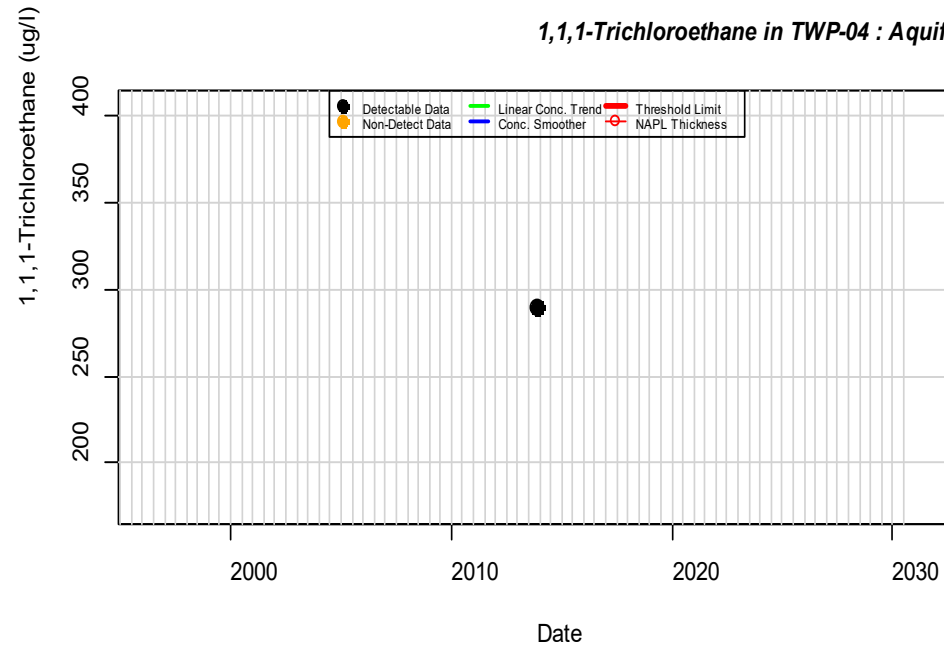




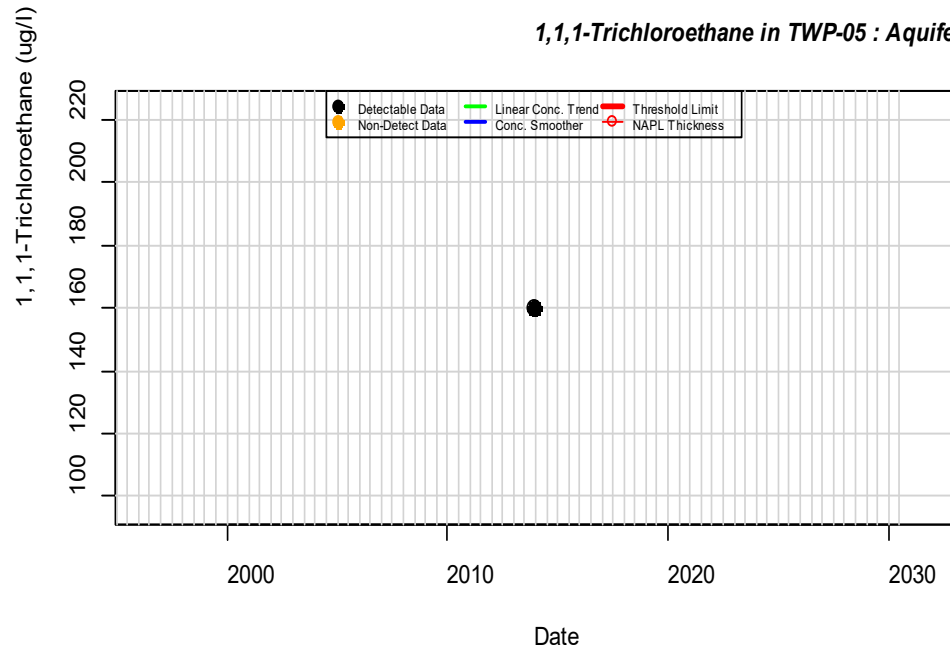
1,1,1-Trichloroethane in TWP-03 : Aquifer-S



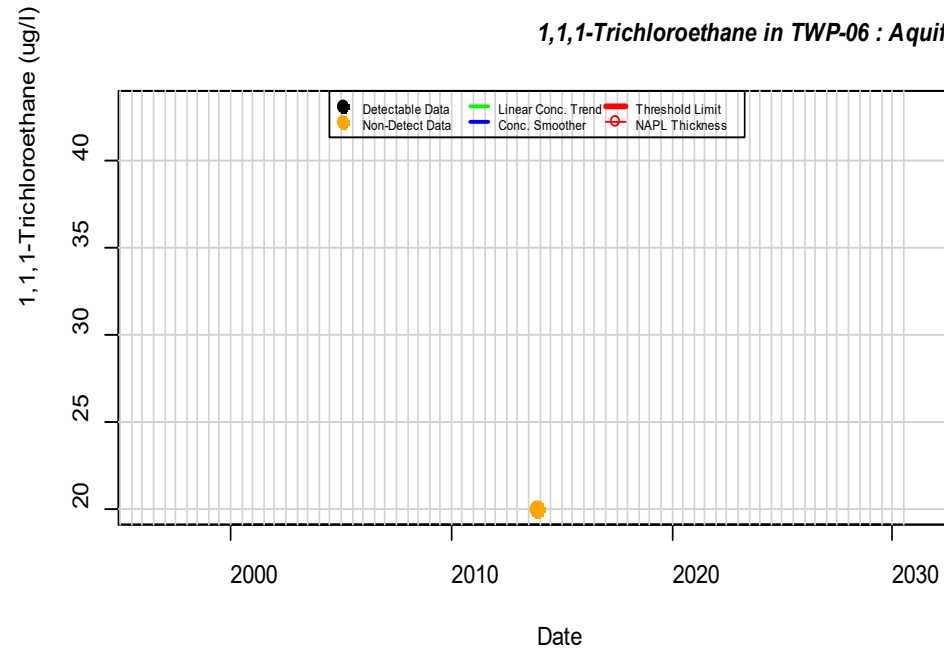
1,1,1-Trichloroethane in TWP-04 : Aquifer-S



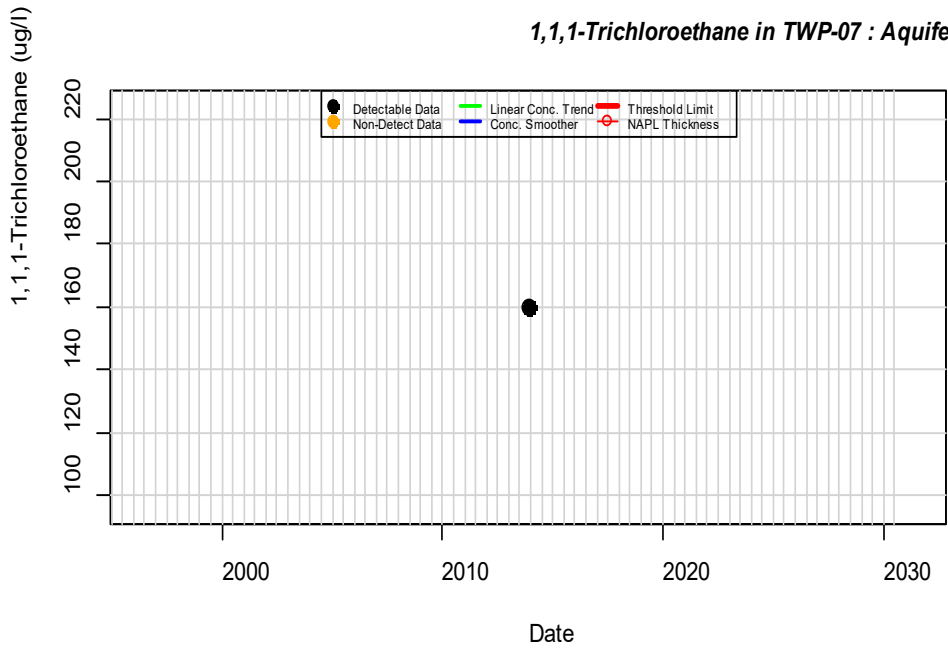
1,1,1-Trichloroethane in TWP-05 : Aquifer-S



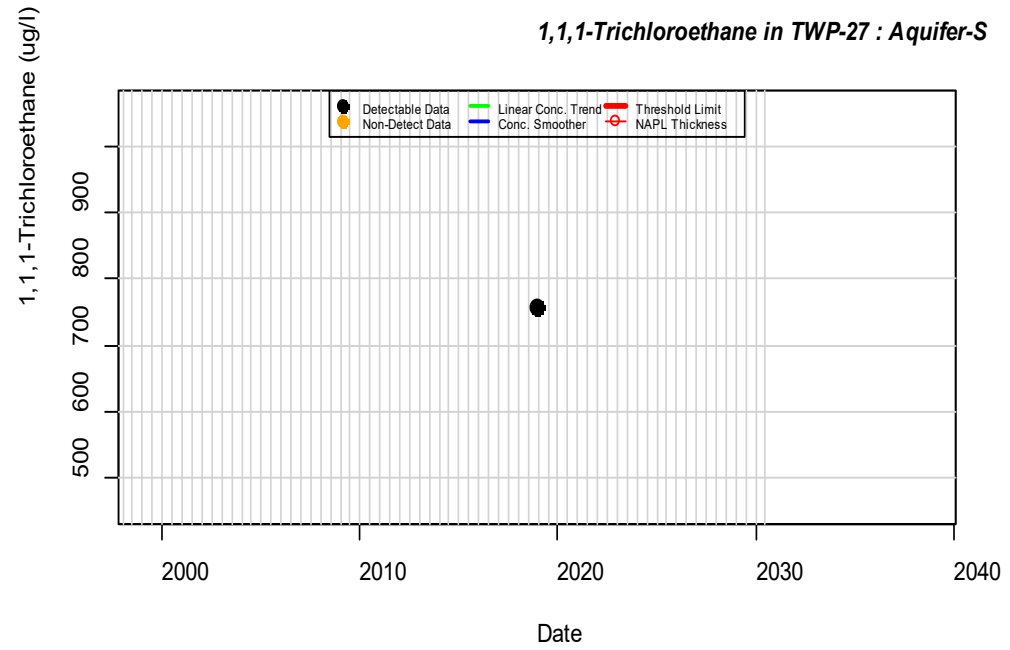
1,1,1-Trichloroethane in TWP-06 : Aquifer-S



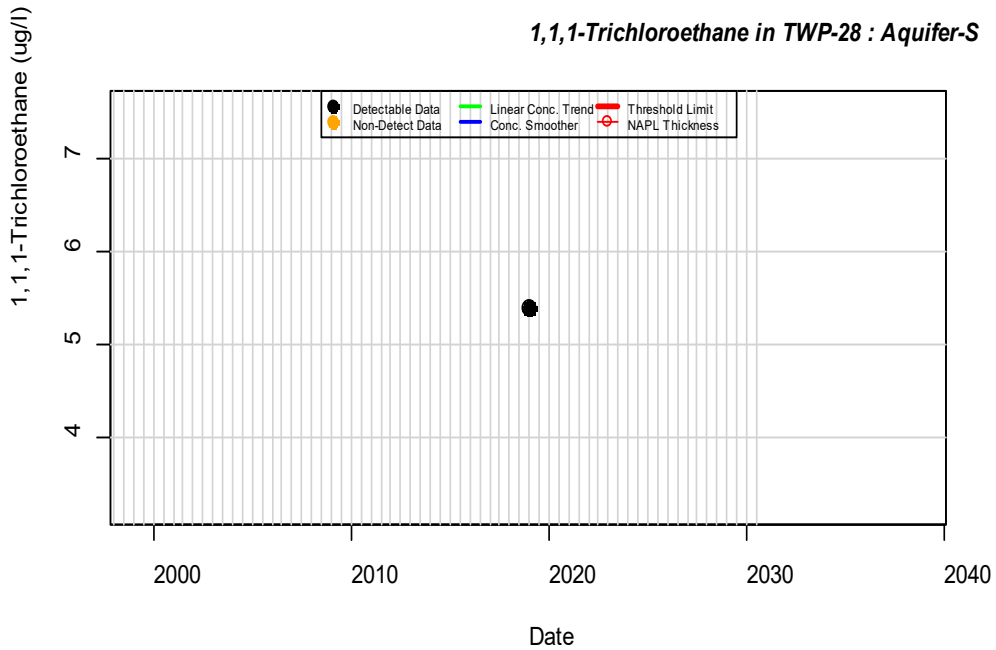
1,1,1-Trichloroethane in TWP-07 : Aquifer-S



1,1,1-Trichloroethane in TWP-27 : Aquifer-S



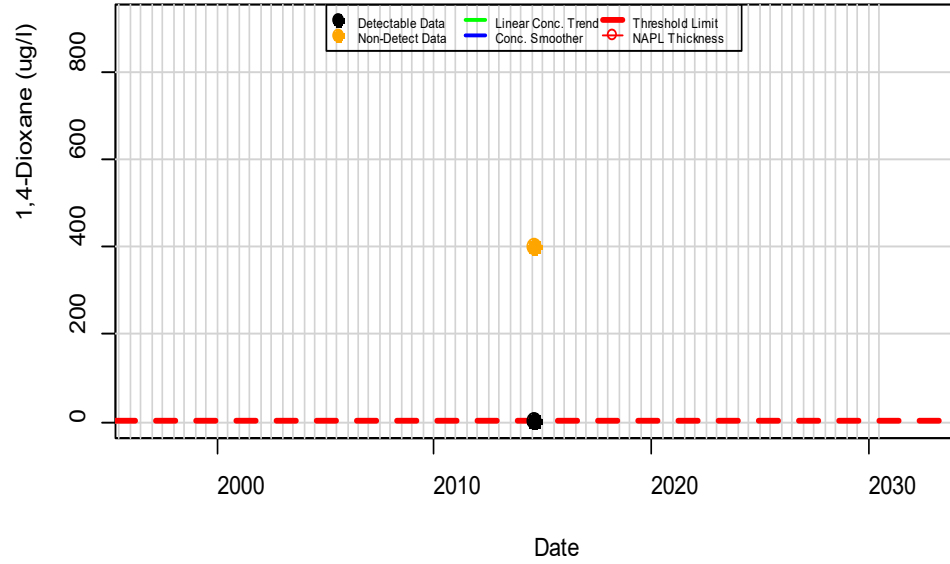
1,1,1-Trichloroethane in TWP-28 : Aquifer-S



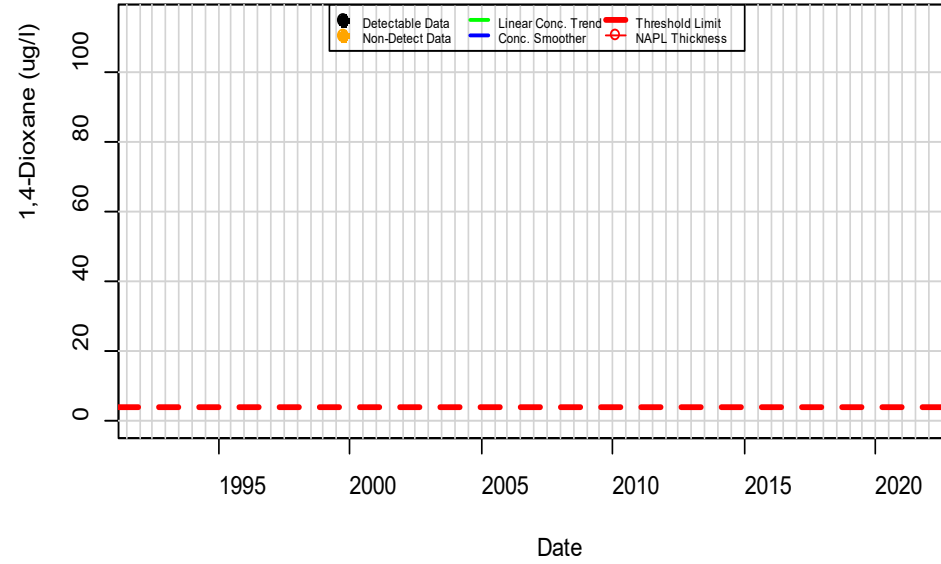
1,4-Dioxane

4 ug/L Threshold

1,4-Dioxane in EW-401 : Aquifer-S

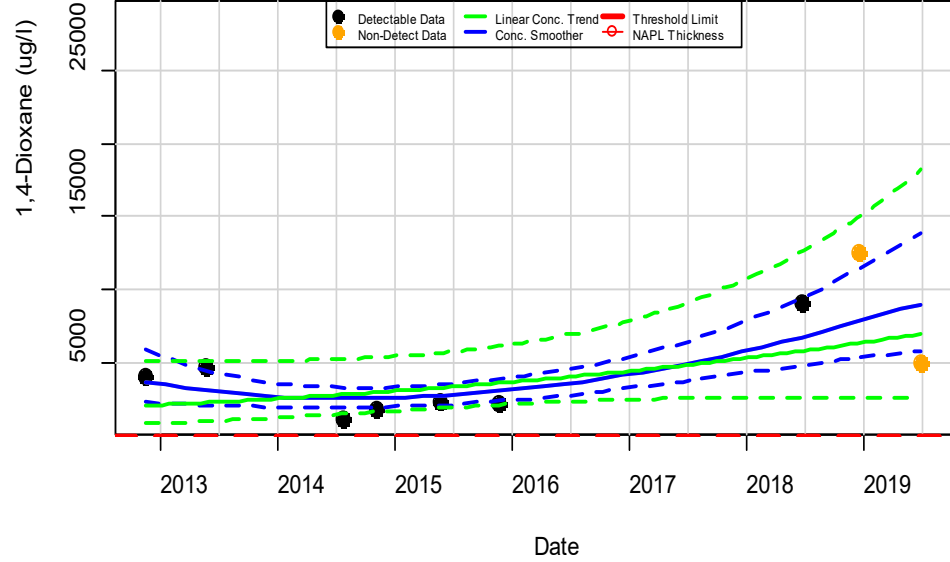


1,4-Dioxane in EW-402 : Aquifer-S



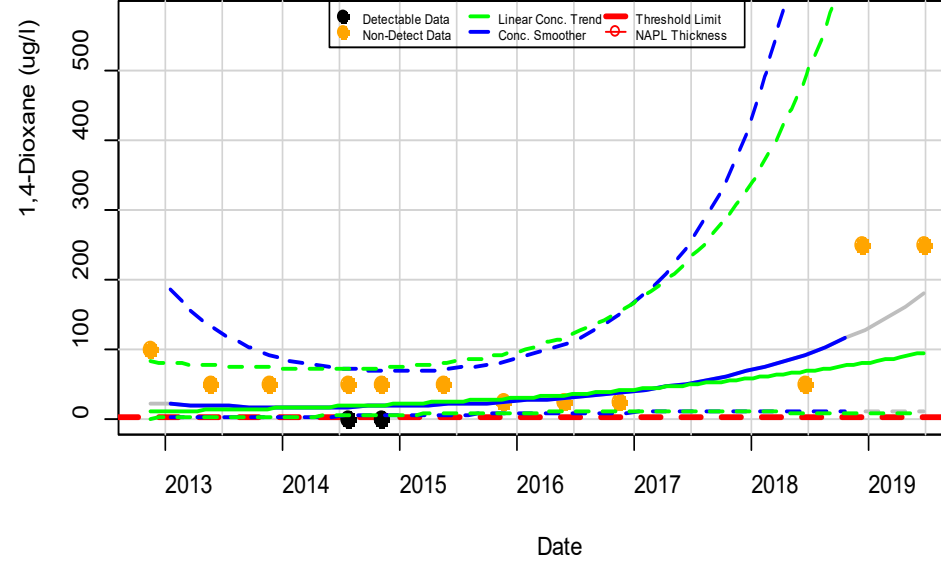
1,4-Dioxane in EW-403 : Aquifer-S

Mann-Kendall P.Value= 0.175; Half-Life= -1395 days



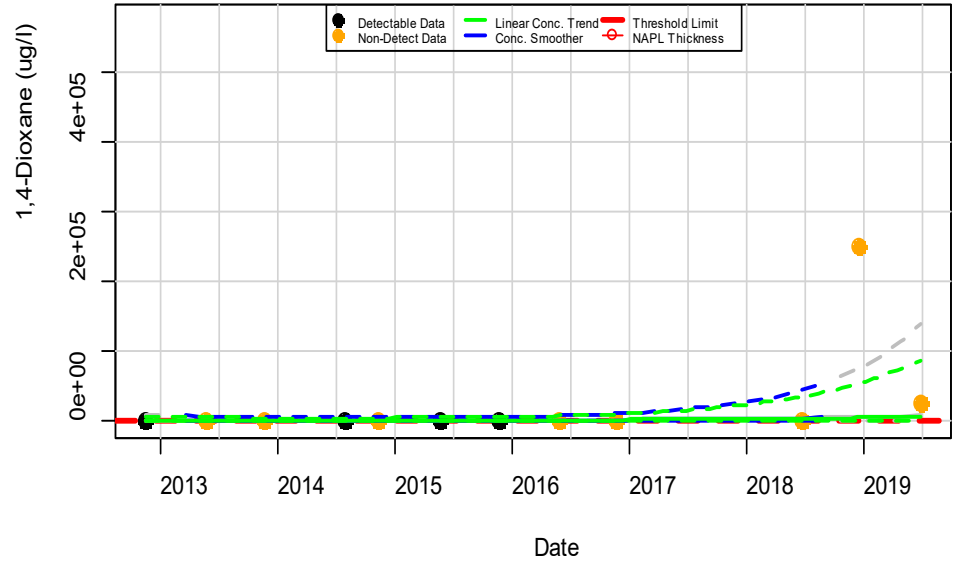
1,4-Dioxane in EW-404 : Aquifer-S

Mann-Kendall P.Value= 0.772; Half-Life= -766 days

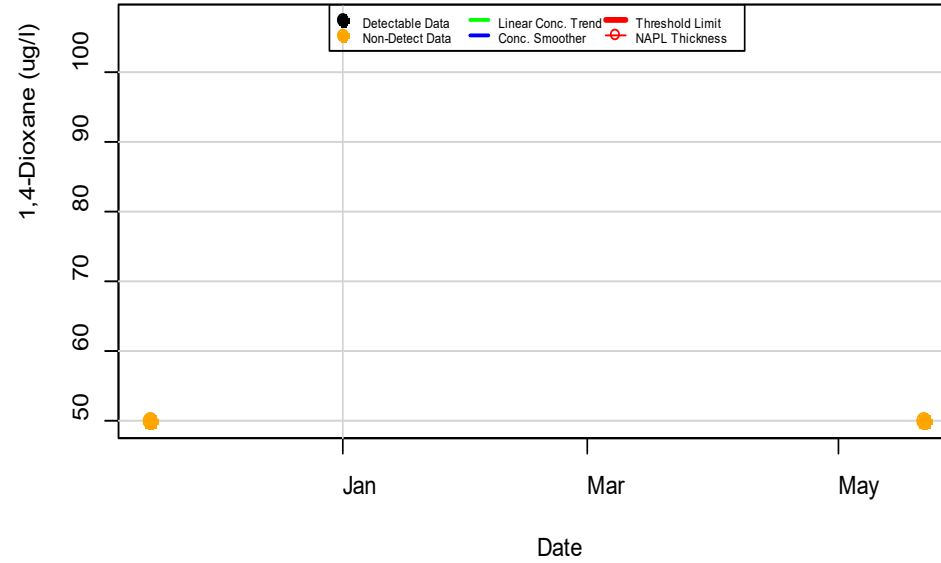


1,4-Dioxane in MW-101 : Aquifer-S

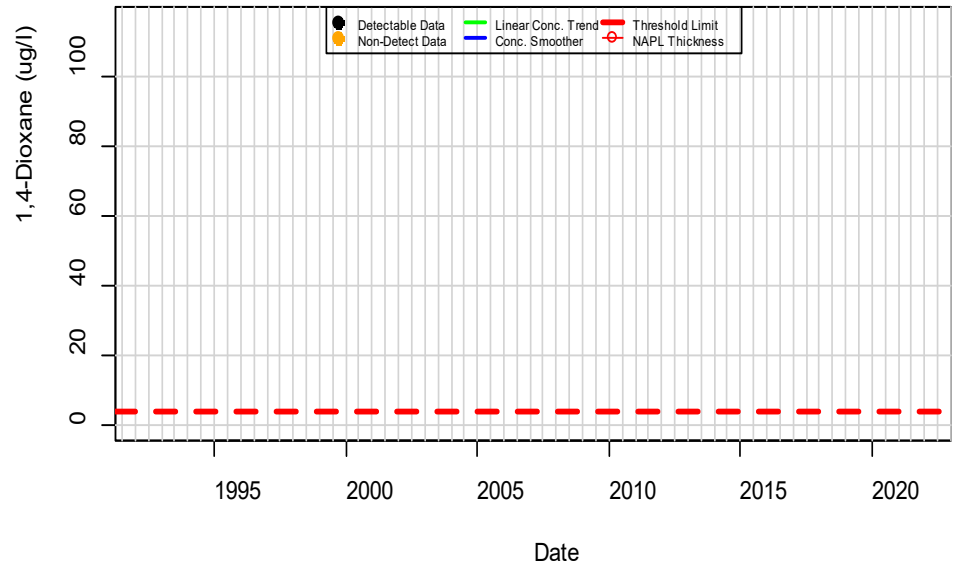
Mann-Kendall P.Value= 0.373; Half-Life= -695 days



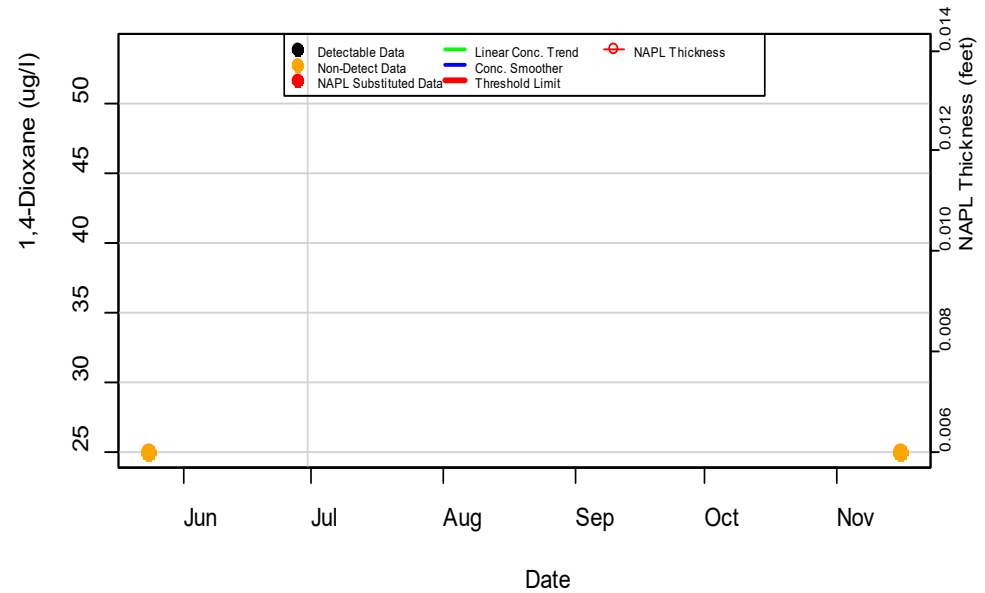
1,4-Dioxane in MW-102B : Aquifer-S



1,4-Dioxane in MW-103 : Aquifer-S

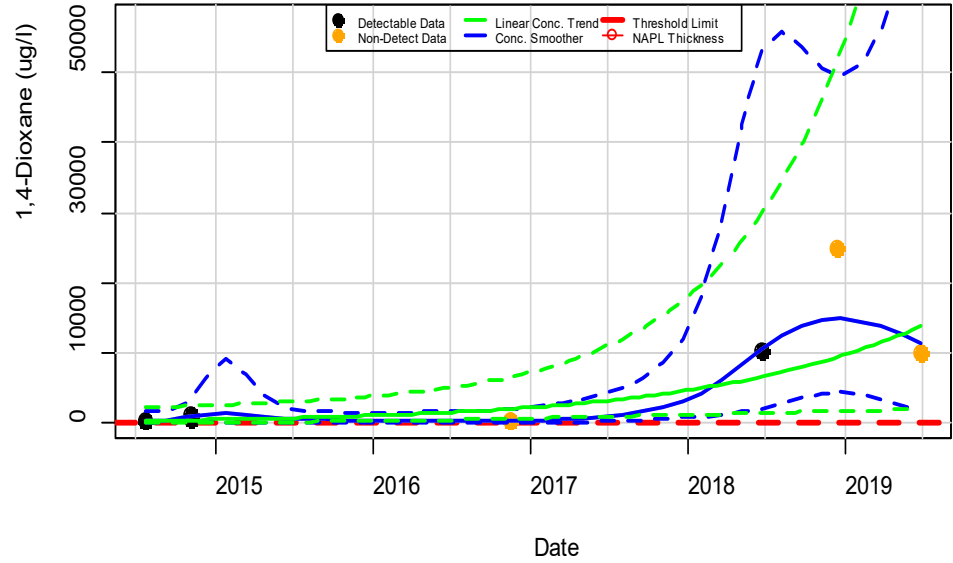


1,4-Dioxane in MW-105 : Aquifer-S

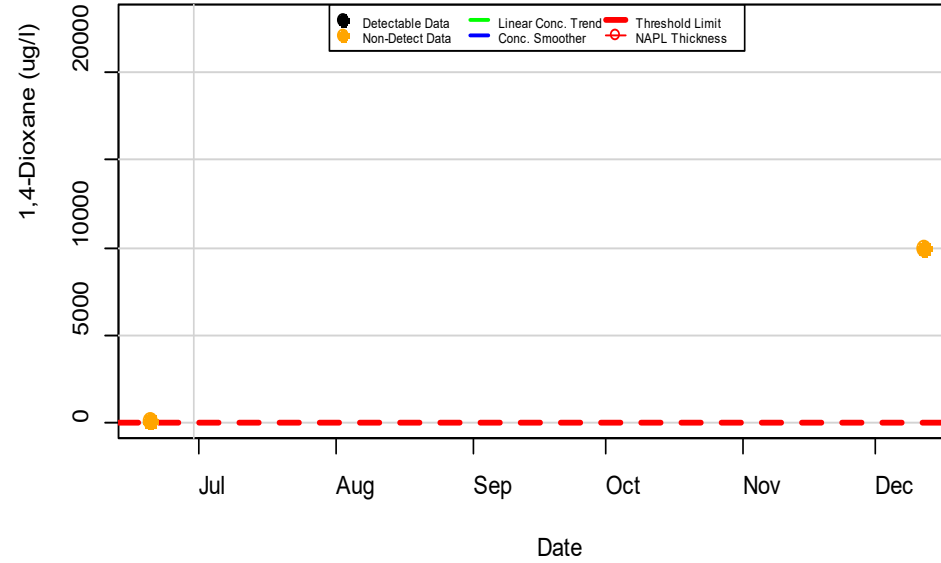


1,4-Dioxane in MW-106 : Aquifer-S

Mann-Kendall P.Value= 0.0947; Half-Life= -345 days

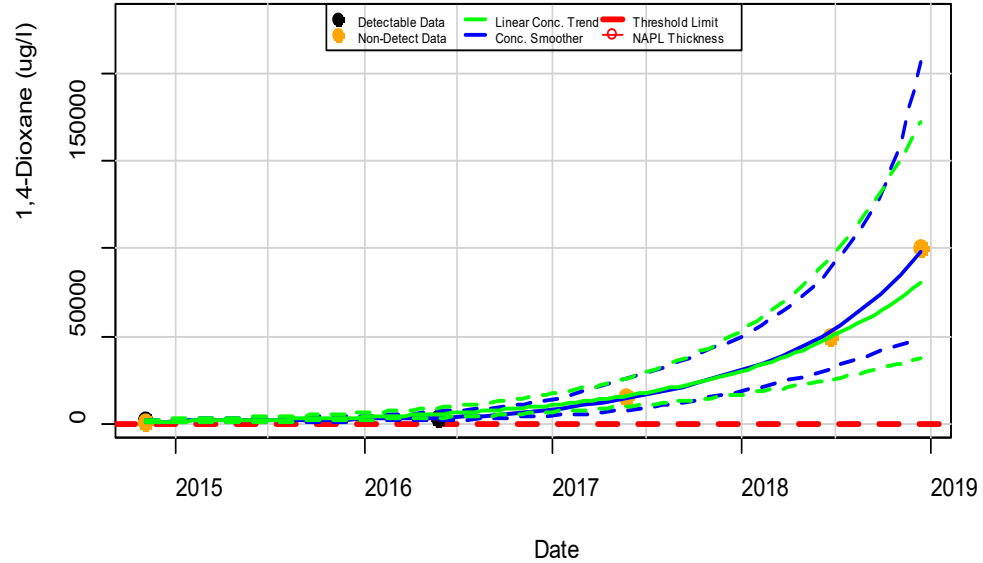


1,4-Dioxane in MW-107 : Aquifer-S

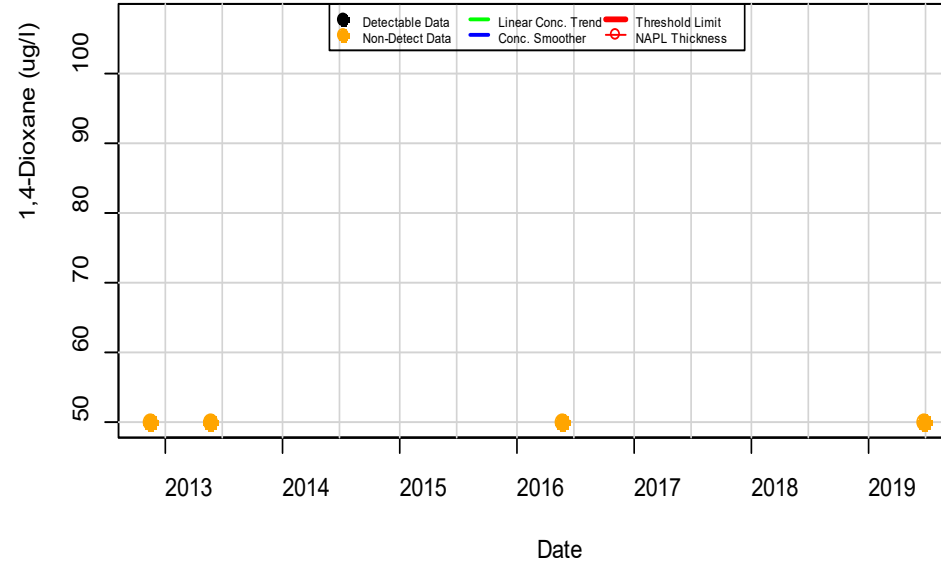


1,4-Dioxane in MW-108 : Aquifer-S

Mann-Kendall P.Value= 0.0129; Half-Life= -244 days

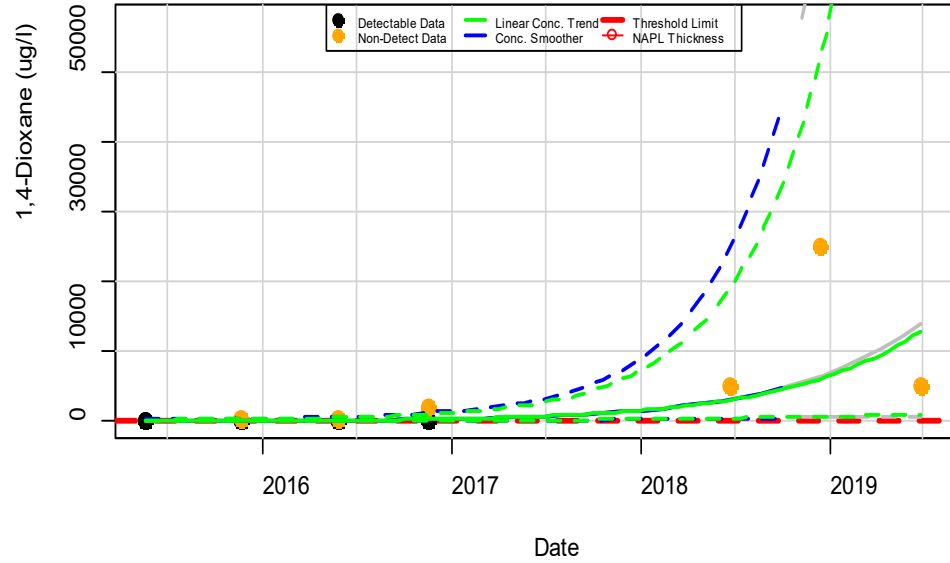


1,4-Dioxane in MW-109 : Aquifer-S

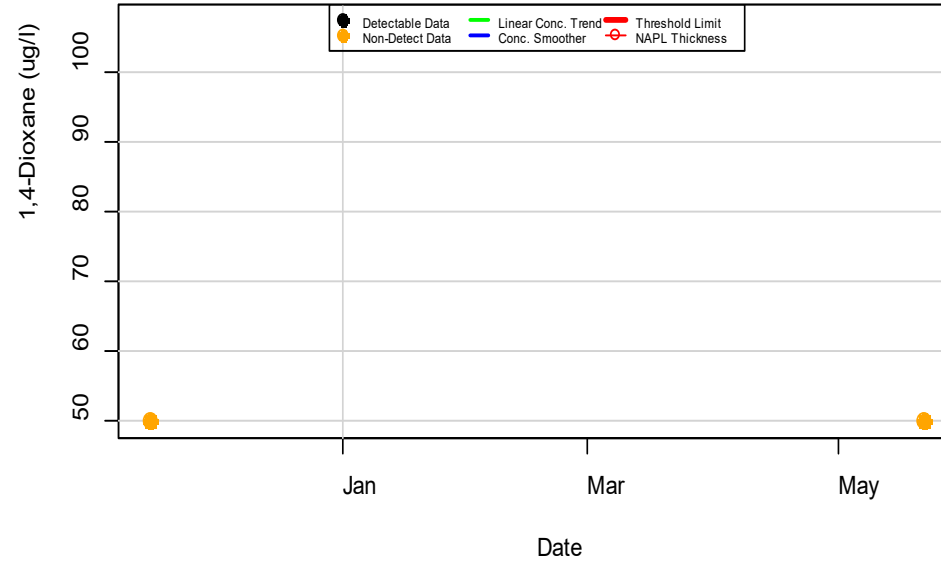


1,4-Dioxane in MW-111 : Aquifer-S

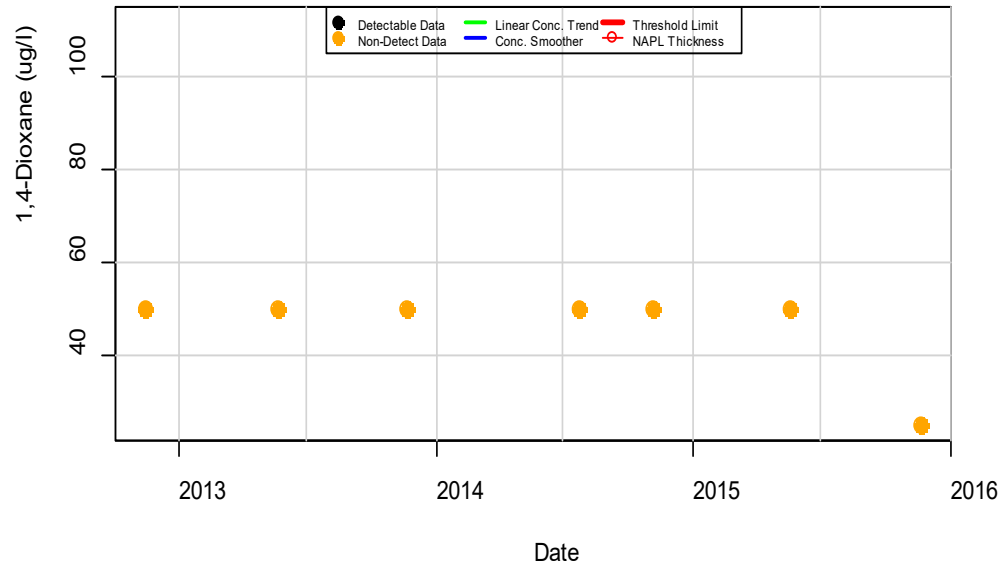
Mann-Kendall P.Value= 0.0318; Half-Life= -179 days



1,4-Dioxane in MW-201 : Aquifer-S

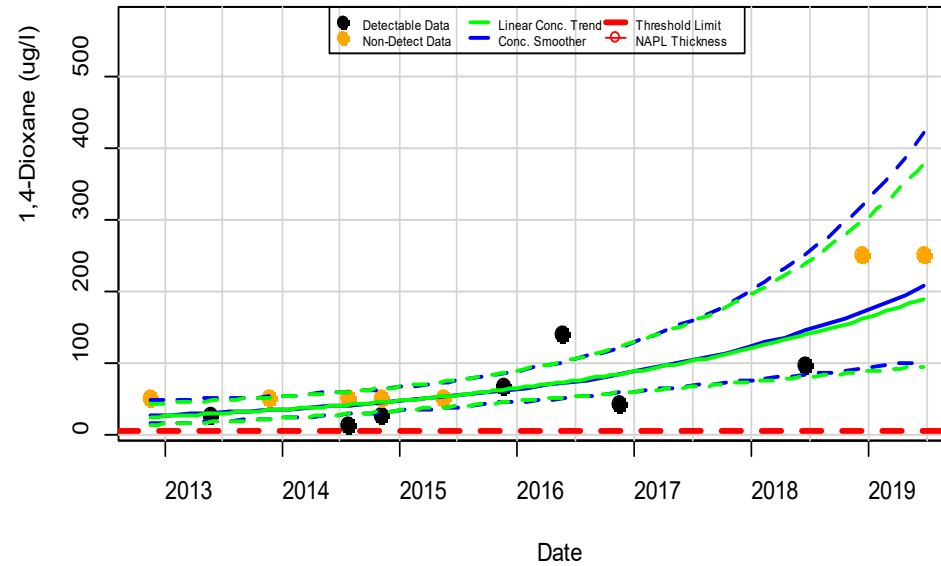


1,4-Dioxane in MW-202 : Aquifer-S

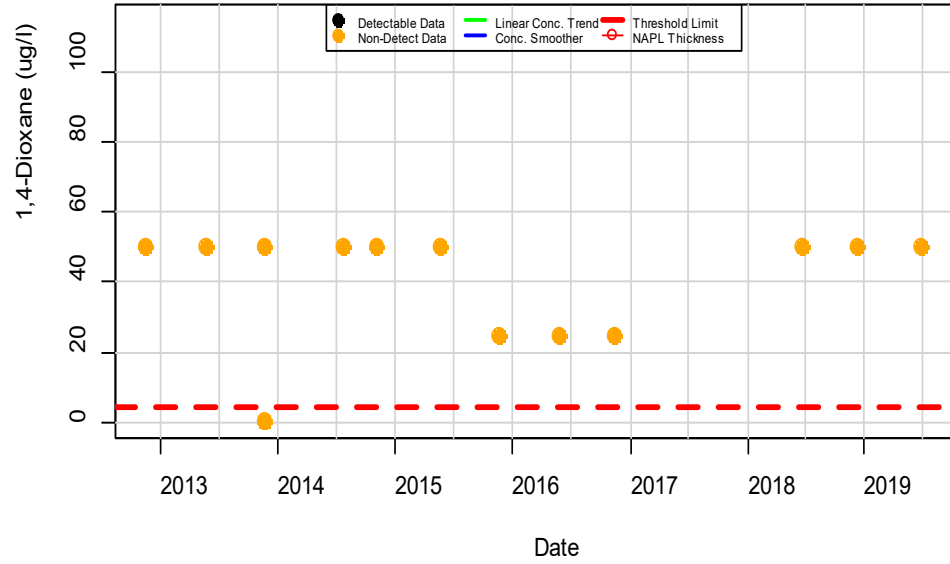


1,4-Dioxane in MW-204 : Aquifer-S

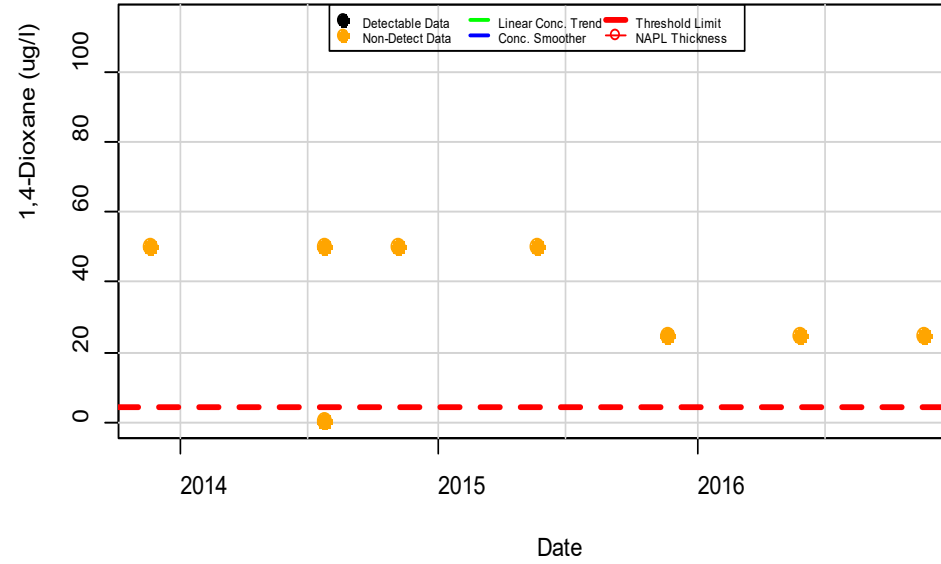
Mann-Kendall P.Value= <0.01; Half-Life= -812 days



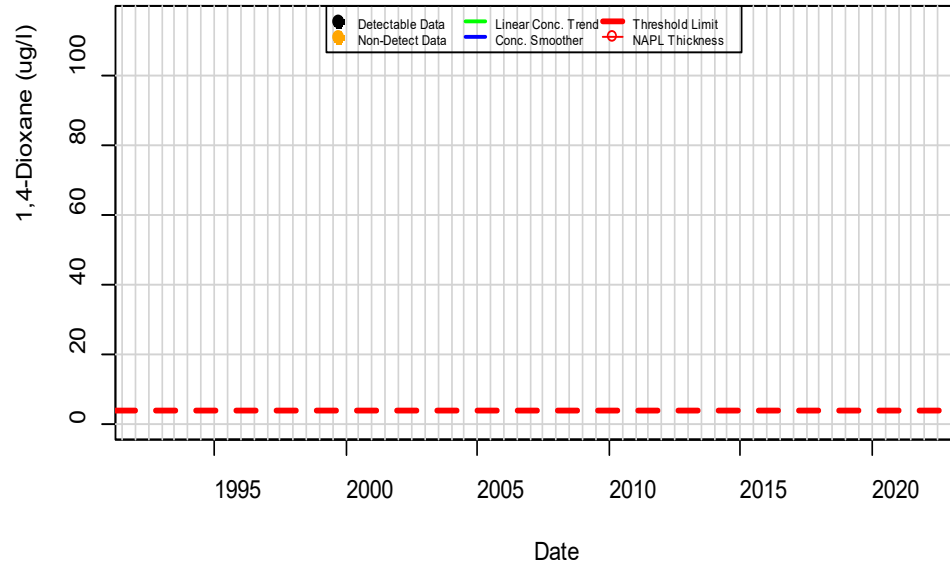
1,4-Dioxane in MW-206B : Aquifer-S



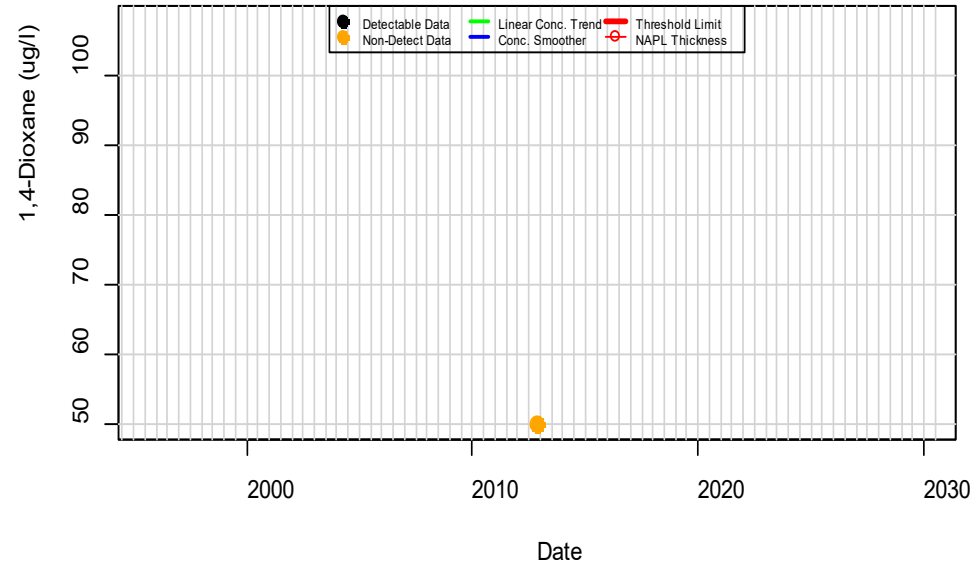
1,4-Dioxane in MW-207 : Aquifer-S



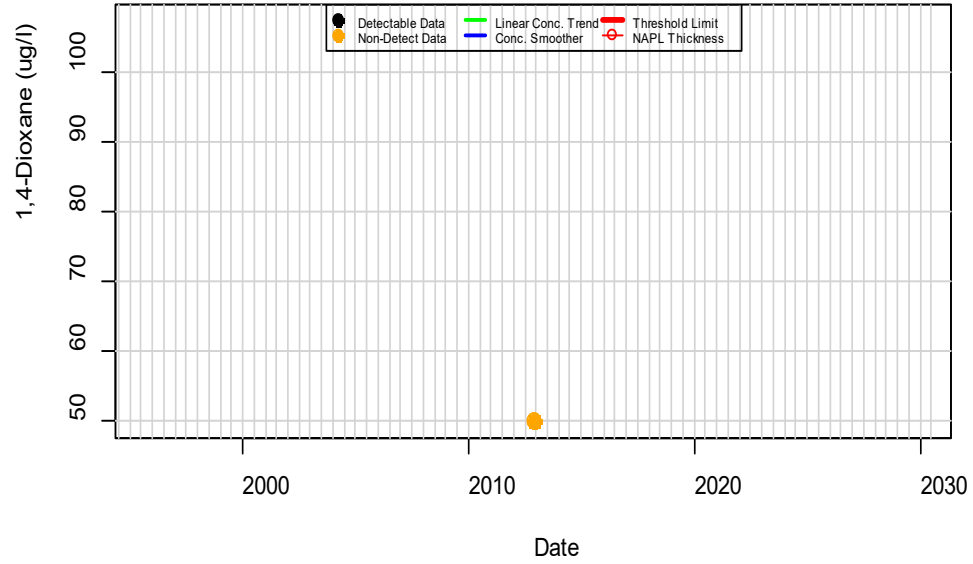
1,4-Dioxane in MW-208 : Aquifer-S



1,4-Dioxane in MW-30 : Aquifer-S

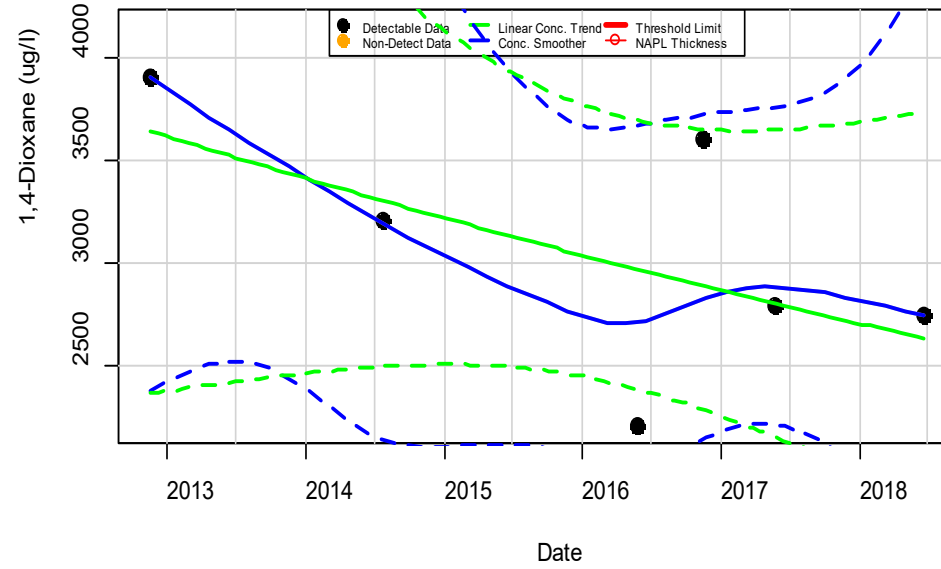


1,4-Dioxane in MW-31 : Aquifer-S



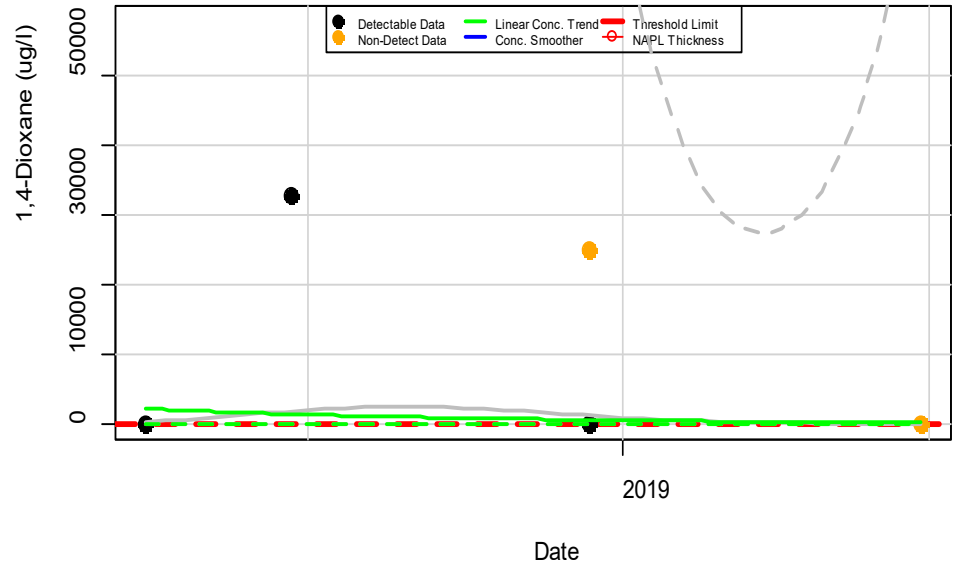
1,4-Dioxane in MW-32 : Aquifer-S

Mann-Kendall P.Value= 0.26; Half-Life> 5 Years

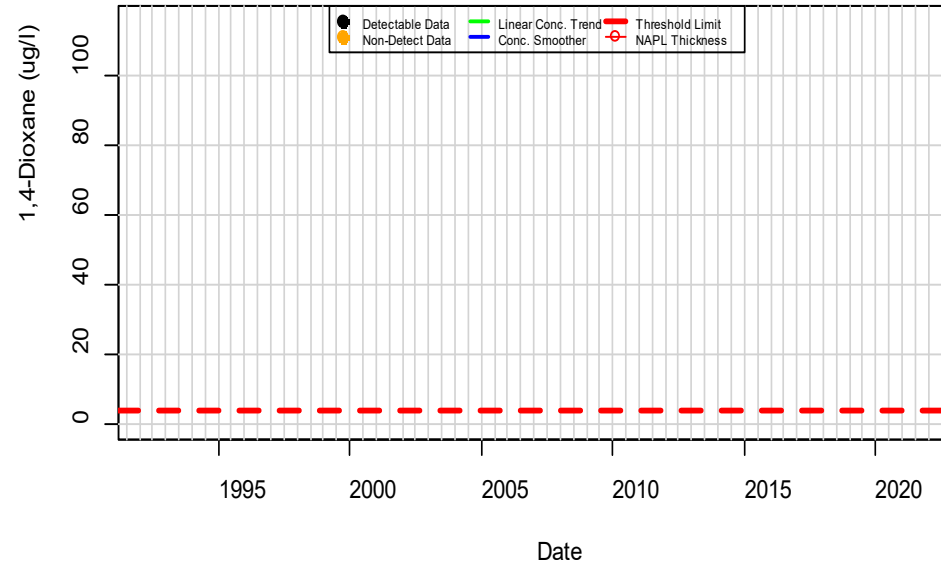


1,4-Dioxane in MW-33 : Aquifer-S

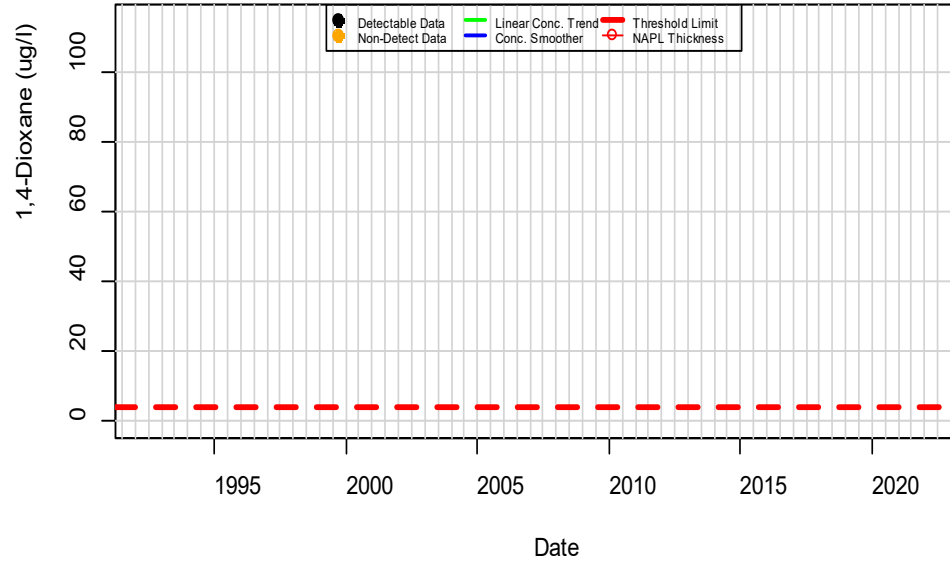
Mann-Kendall P.Value= 0.613; Half-Life= 144 days



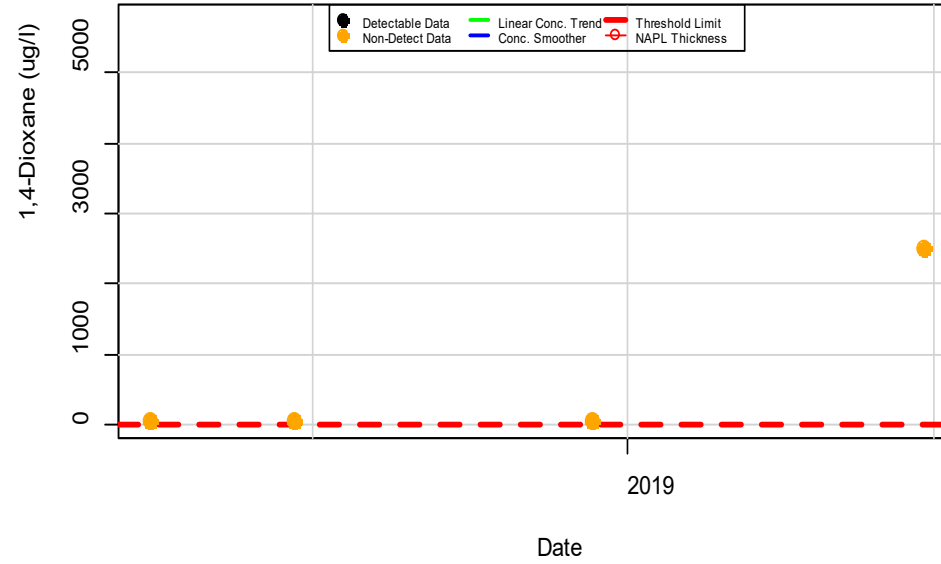
1,4-Dioxane in MW-34 : Aquifer-S



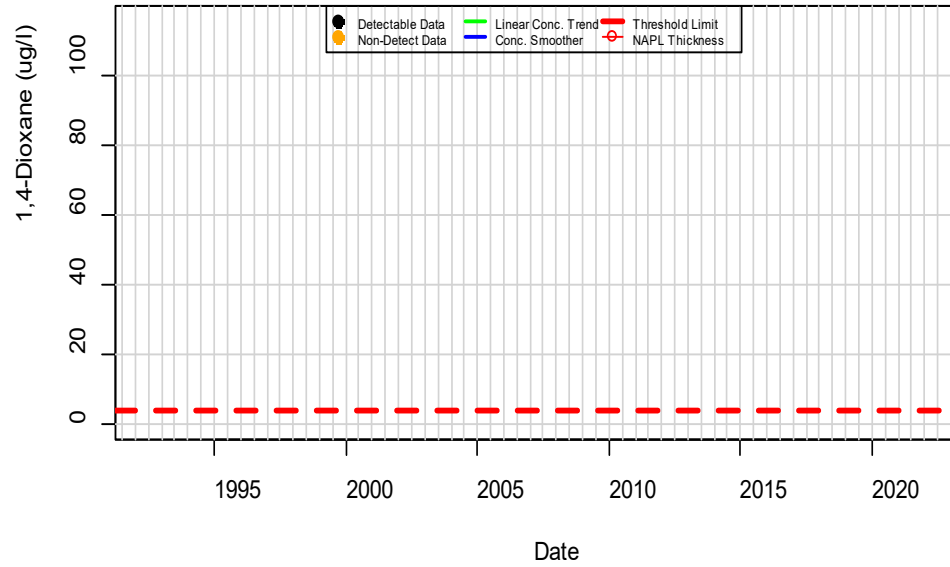
1,4-Dioxane in MW-35 : Aquifer-S



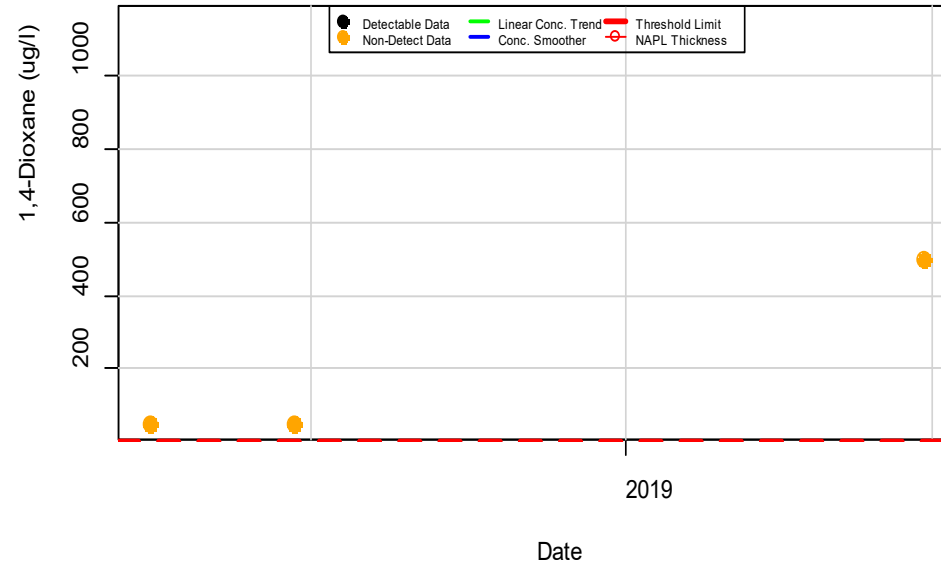
1,4-Dioxane in MW-401B : Aquifer-S



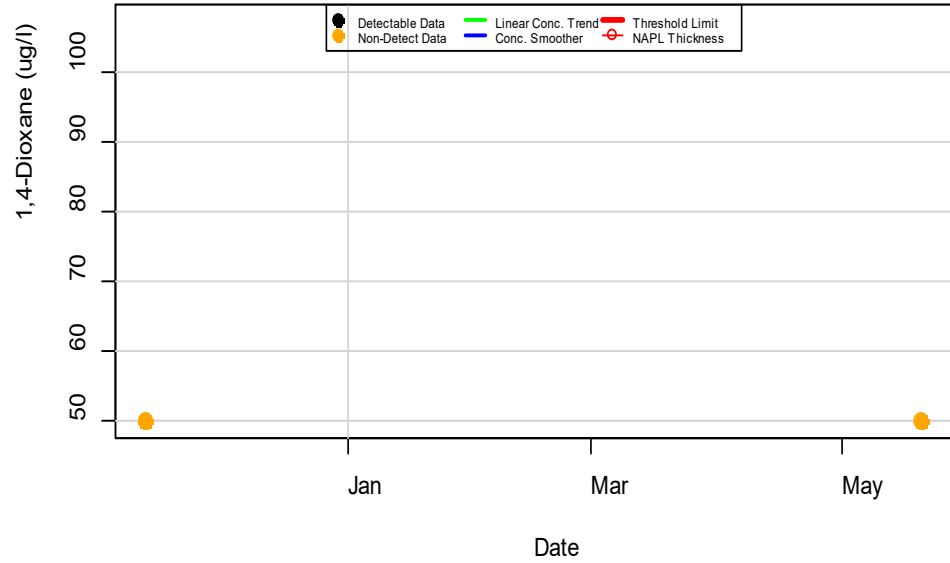
1,4-Dioxane in PZ-1 : Aquifer-S



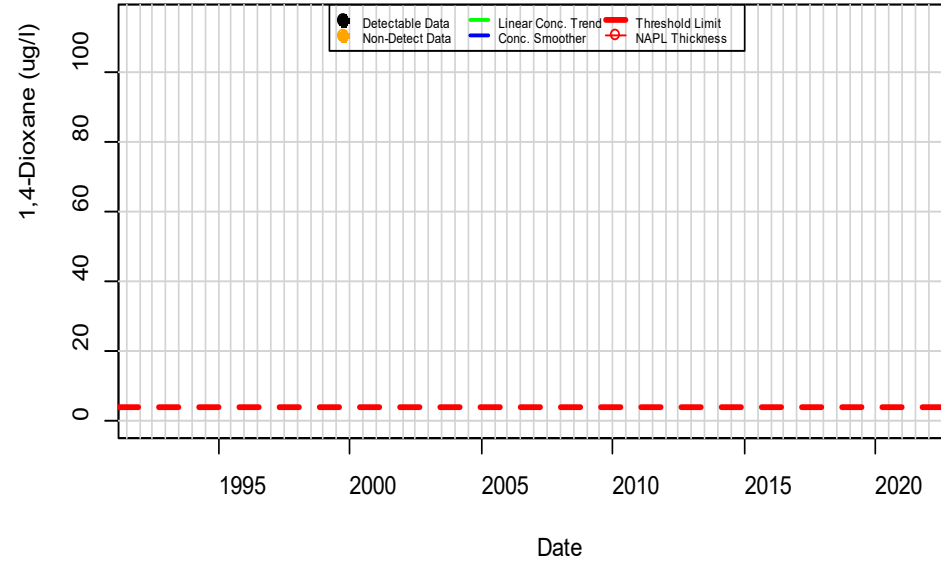
1,4-Dioxane in PZ-10 : Aquifer-S



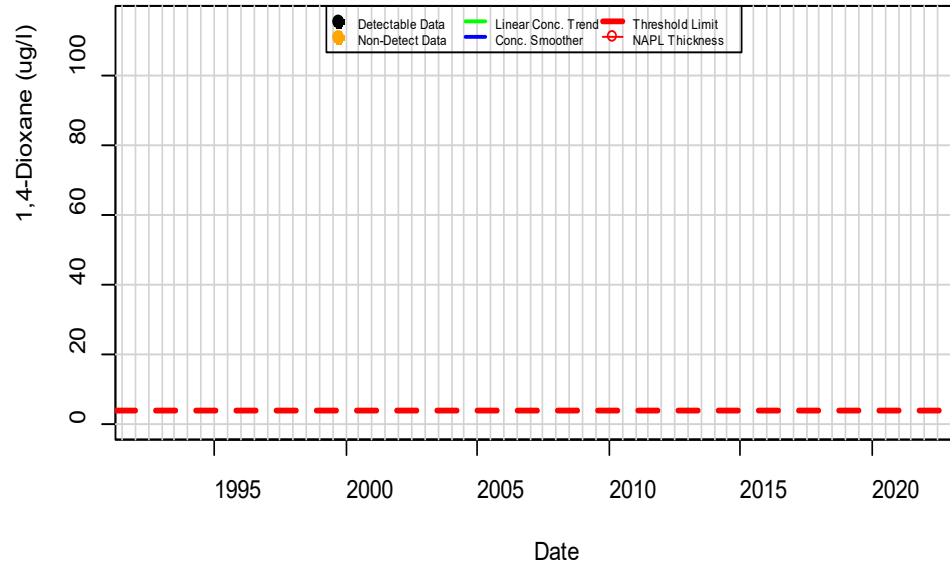
1,4-Dioxane in PZ-14 : Aquifer-S



1,4-Dioxane in PZ-19 : Aquifer-S

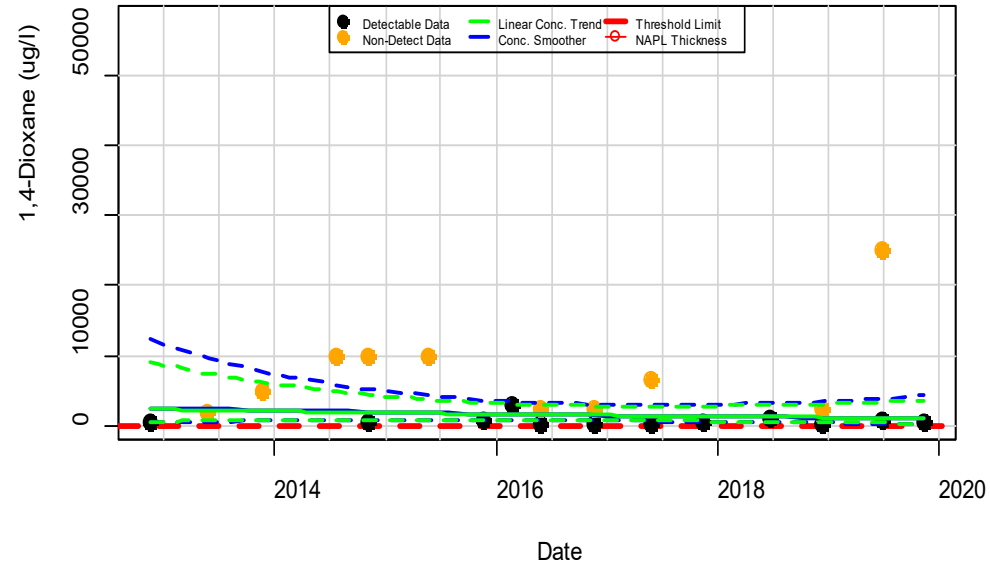


1,4-Dioxane in PZ-2 : Aquifer-S



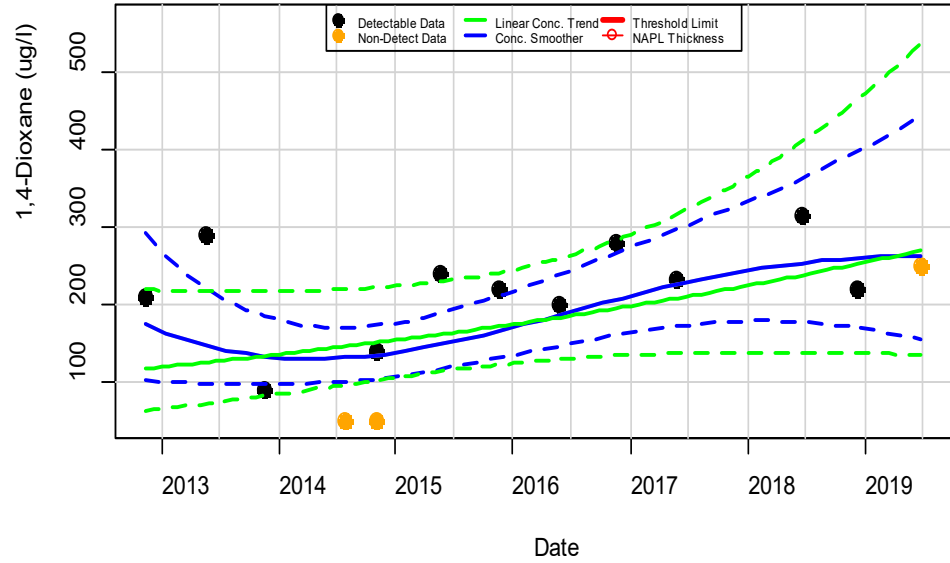
1,4-Dioxane in PZ-20 : Aquifer-S

Mann-Kendall P.Value= 0.364; Half-Life> 5 Years



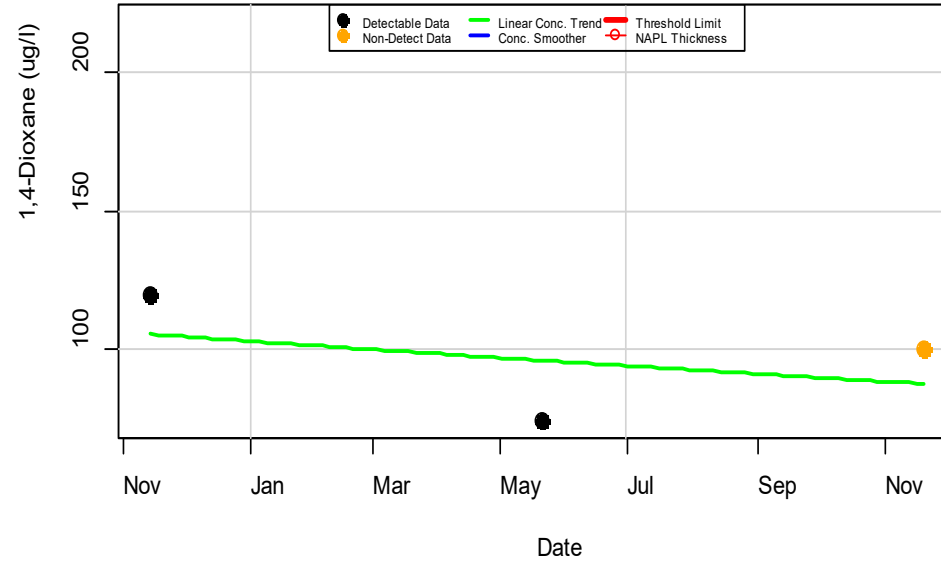
1,4-Dioxane in PZ-21 : Aquifer-S

Mann-Kendall P.Value= 0.111; Half-Life> -5 Years

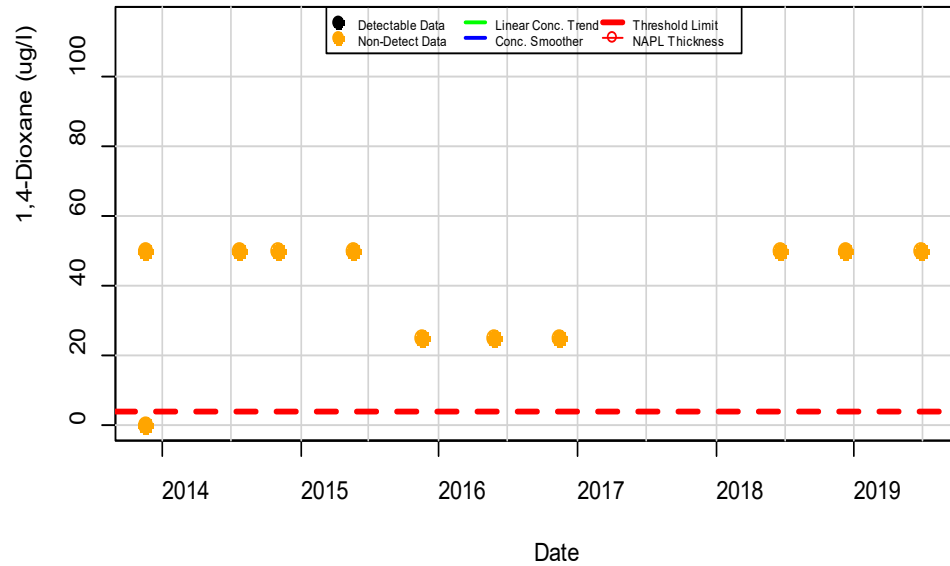


1,4-Dioxane in PZ-22 : Aquifer-S

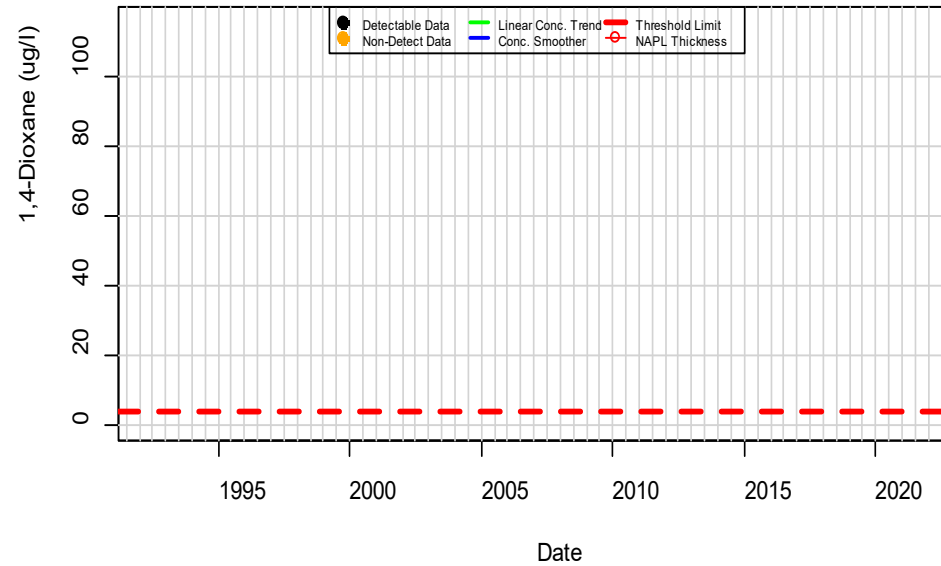
Mann-Kendall P.Value= 1; Half-Life= 1384 days



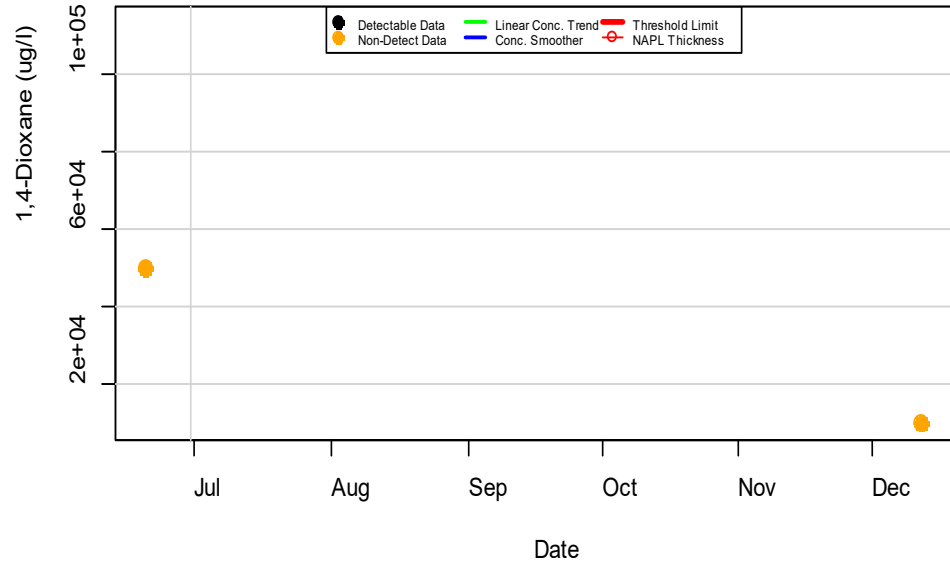
1,4-Dioxane in PZ-23 : Aquifer-S



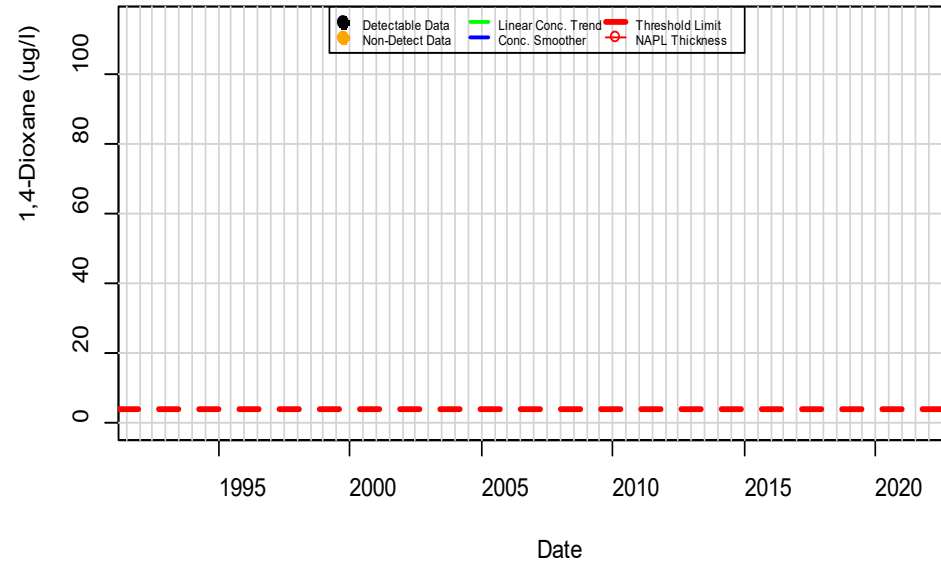
1,4-Dioxane in PZ-3 : Aquifer-S



1,4-Dioxane in PZ-4 : Aquifer-S

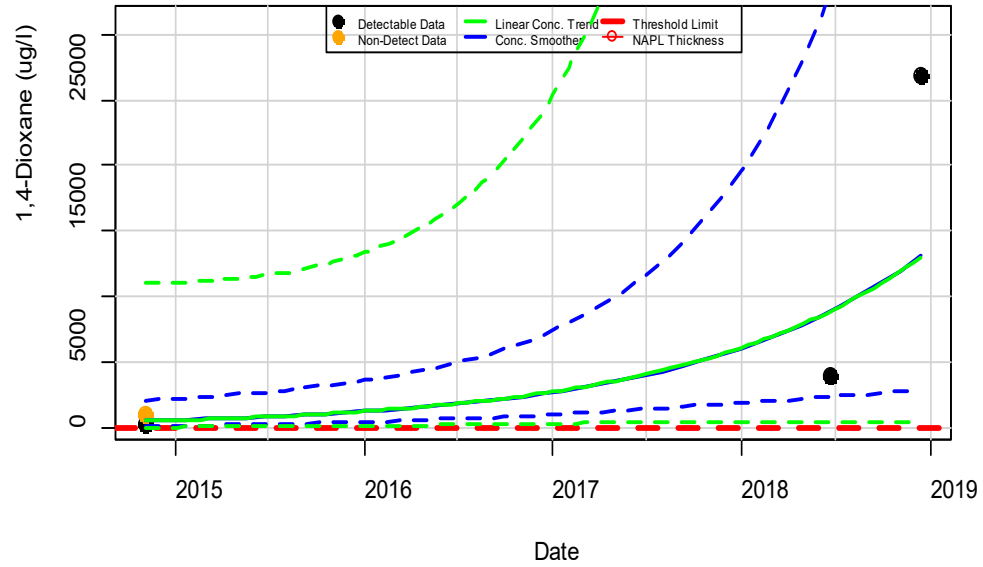


1,4-Dioxane in PZ-5 : Aquifer-S



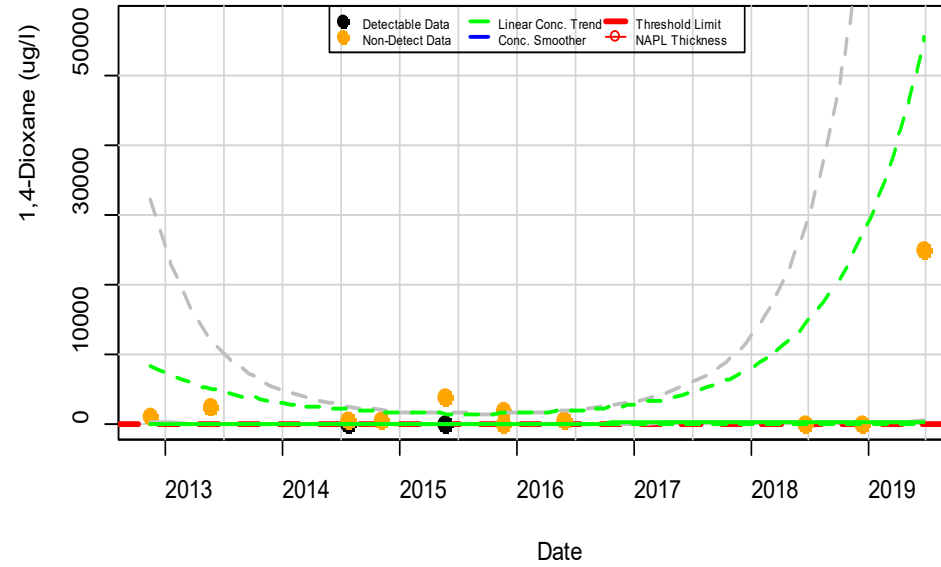
1,4-Dioxane in PZ-6 : Aquifer-S

Mann-Kendall P.Value= 0.149; Half-Life= -316 days

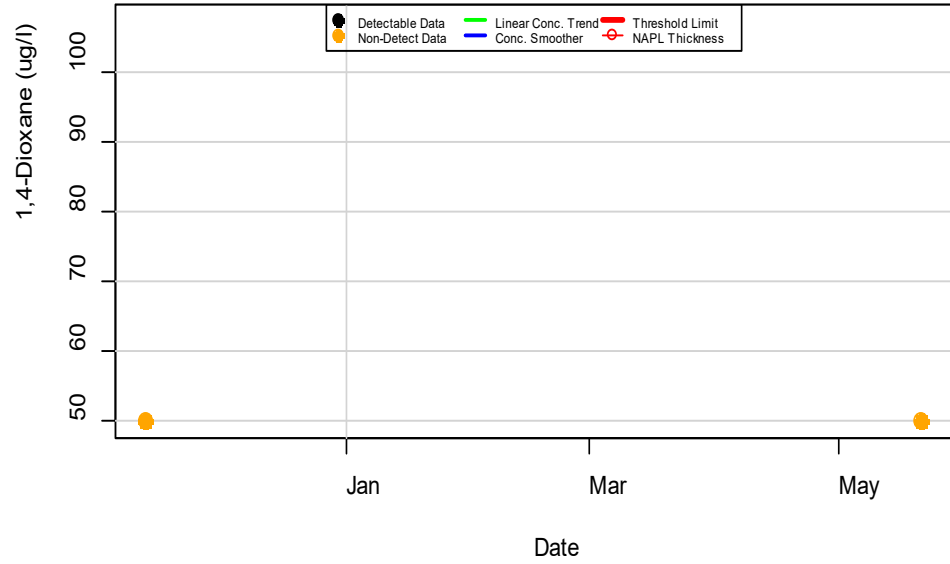


1,4-Dioxane in RX-01 : Aquifer-S

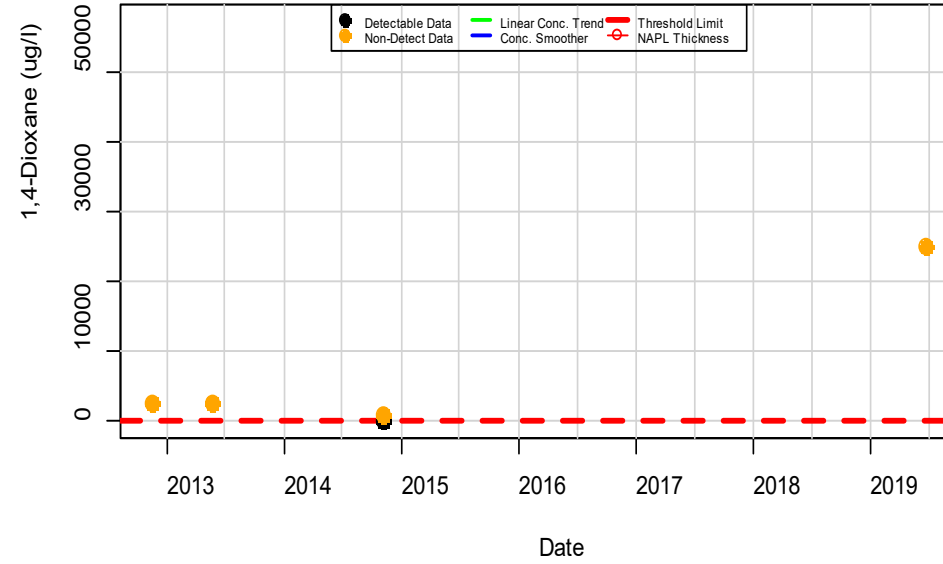
Mann-Kendall P.Value= 0.902; Half-Life= -1469 days



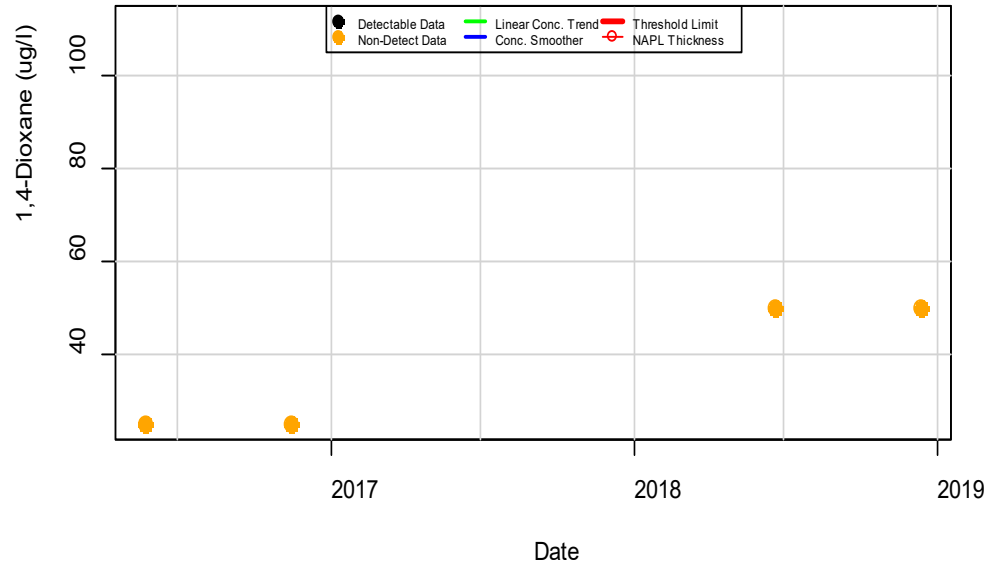
1,4-Dioxane in RX-02 : Aquifer-S



1,4-Dioxane in RX-03 : Aquifer-S

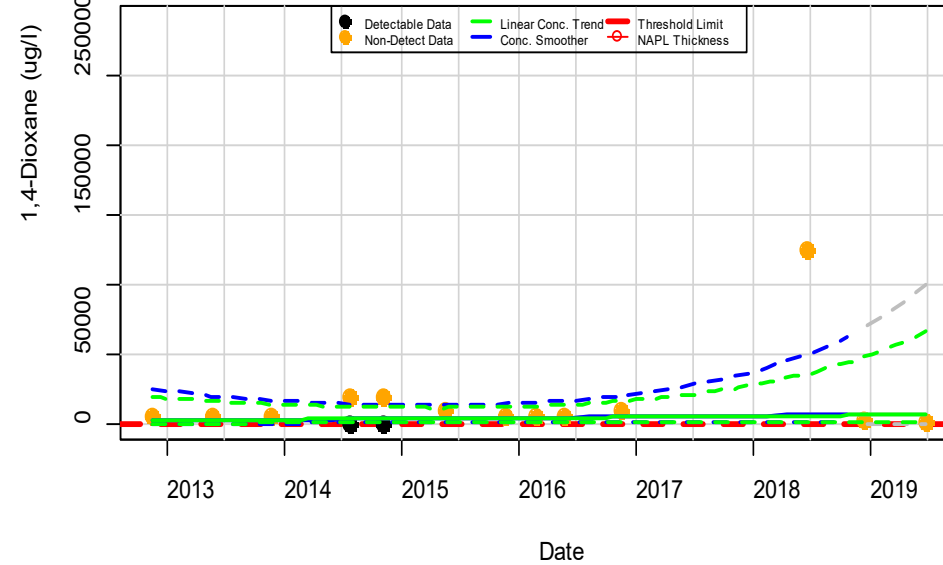


1,4-Dioxane in RX-04 : Aquifer-S

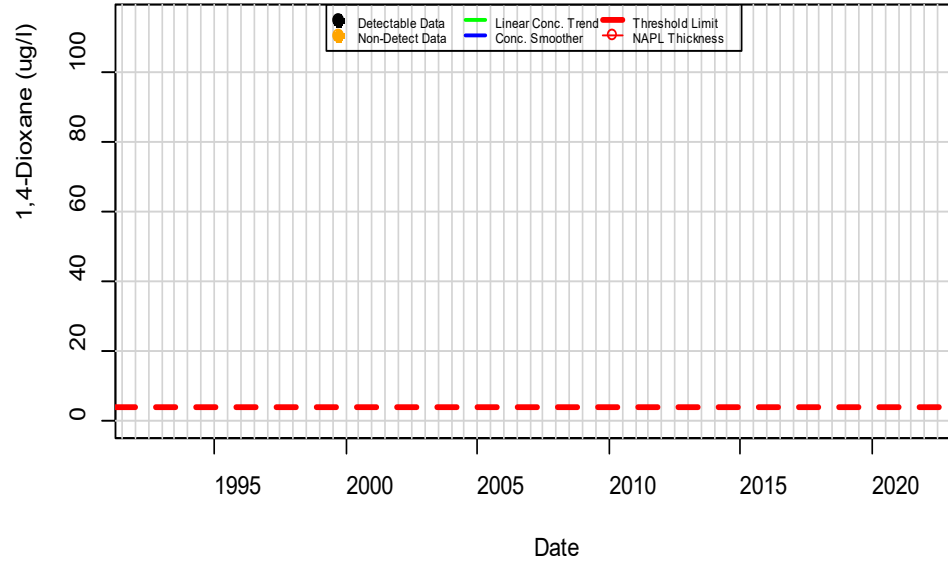


1,4-Dioxane in RX-05 : Aquifer-S

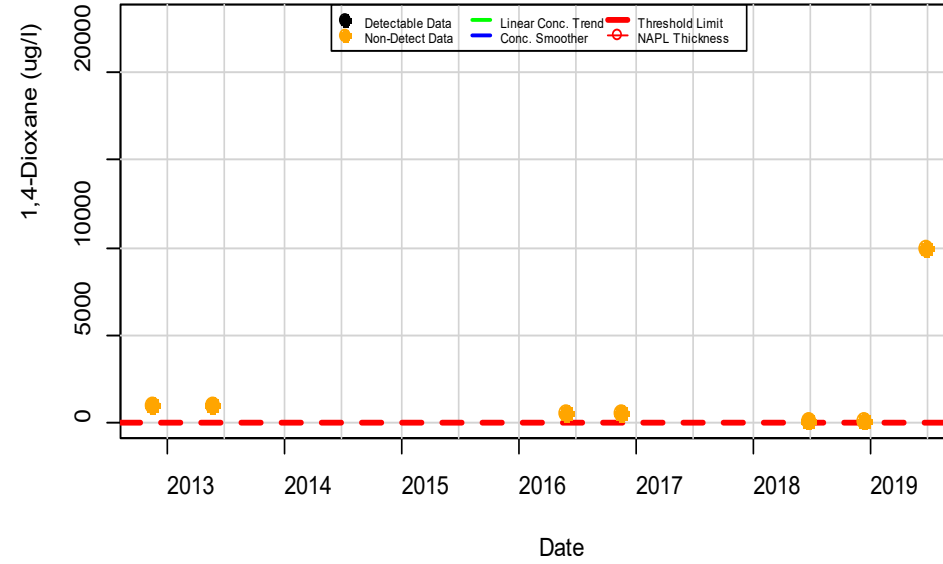
Mann-Kendall P.Value= 1; Half-Life> -5 Years



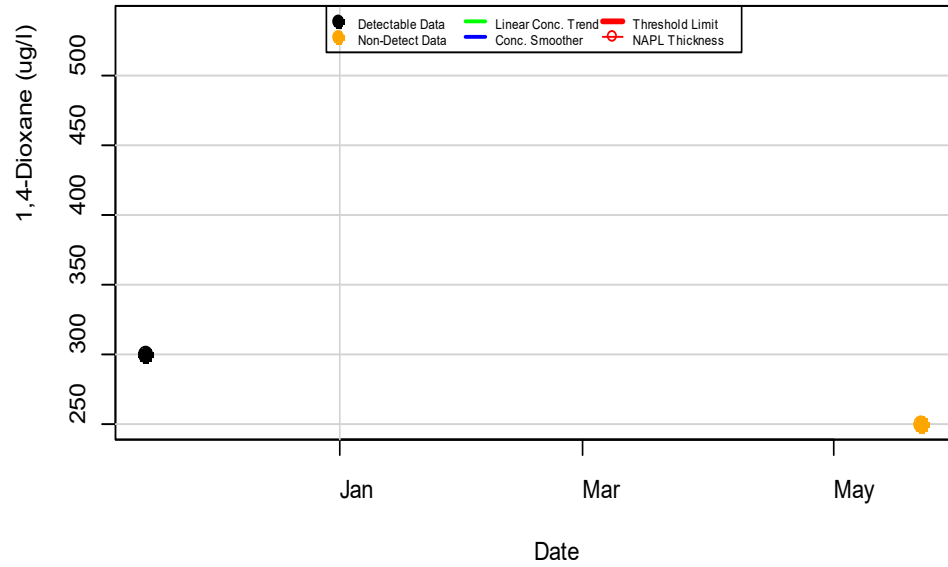
1,4-Dioxane in RX-06 : Aquifer-S



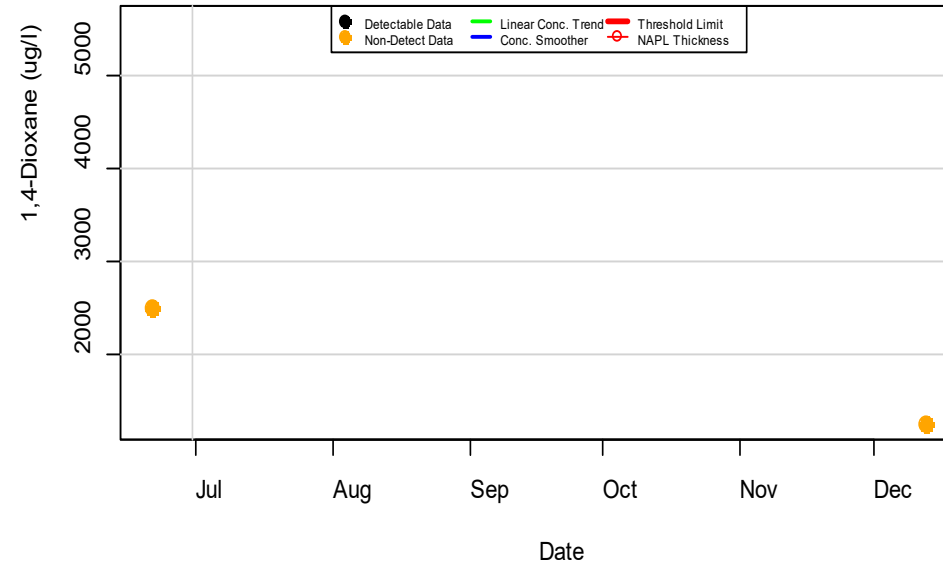
1,4-Dioxane in RX-07 : Aquifer-S



1,4-Dioxane in RX-08 : Aquifer-S

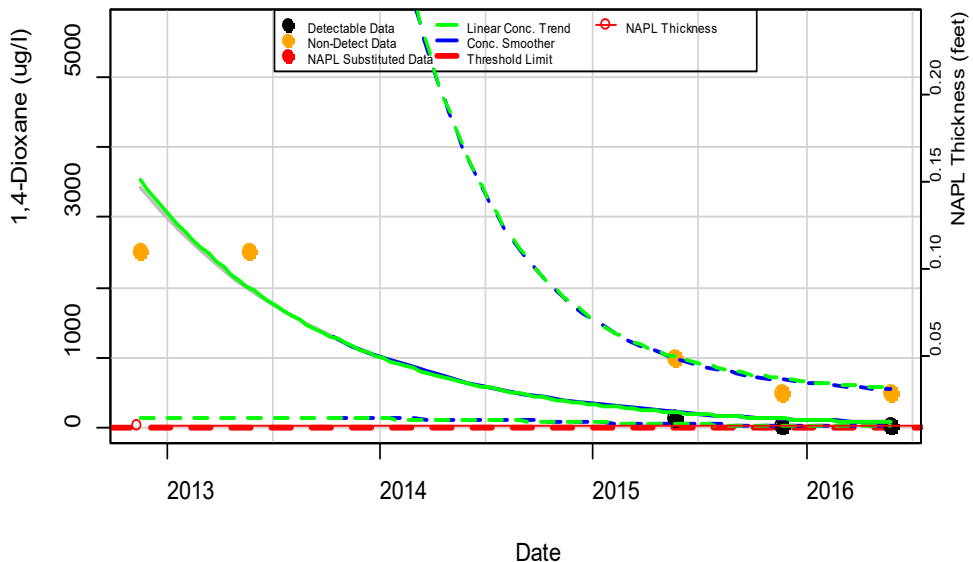


1,4-Dioxane in RX-09 : Aquifer-S

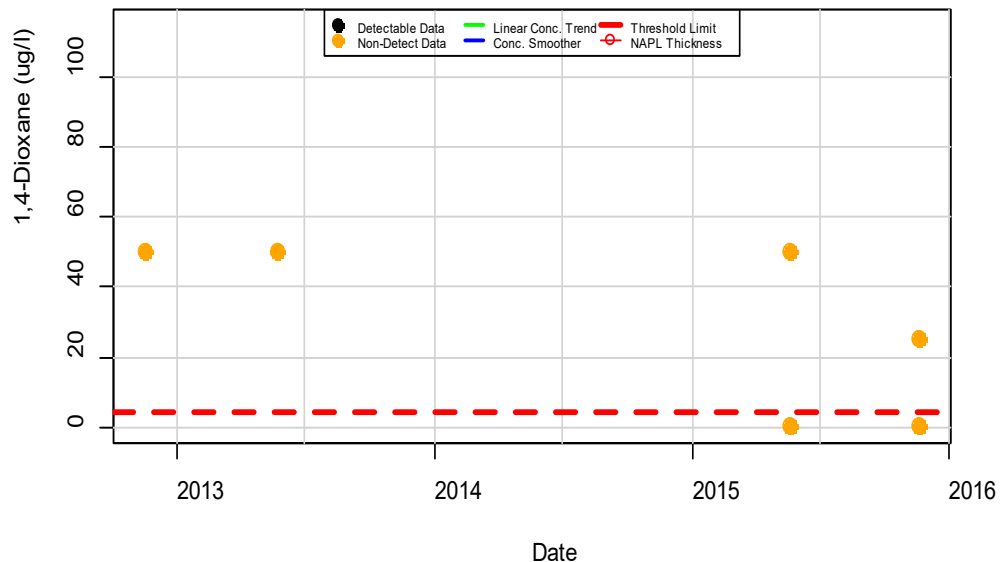


1,4-Dioxane in RX-10 : Aquifer-S

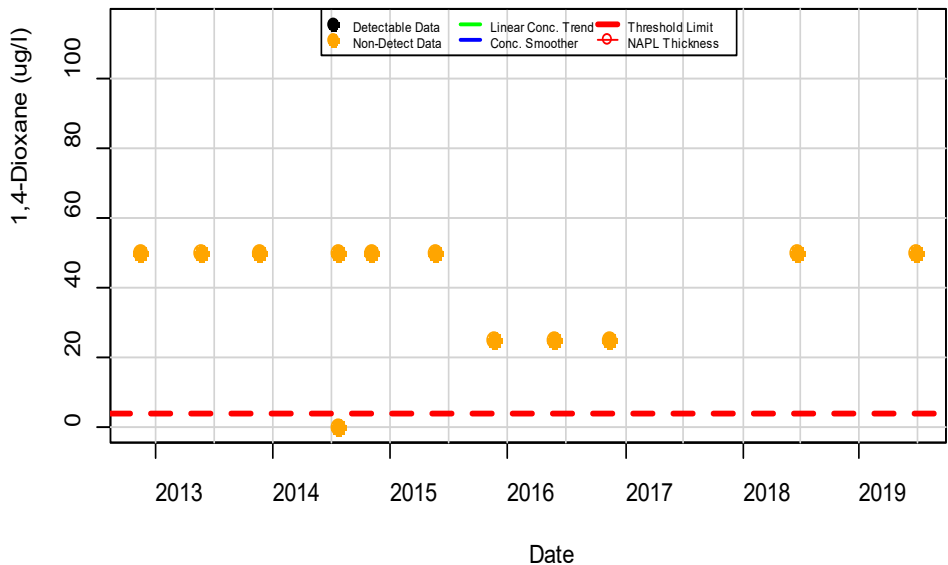
Mann-Kendall P.Value= 0.072; Half-Life= 225 days



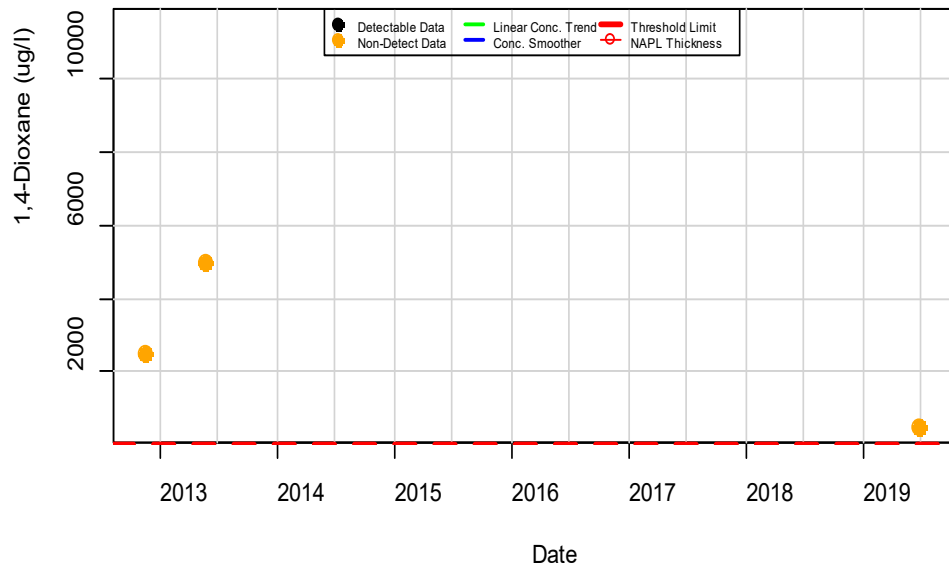
1,4-Dioxane in RX-11 : Aquifer-S



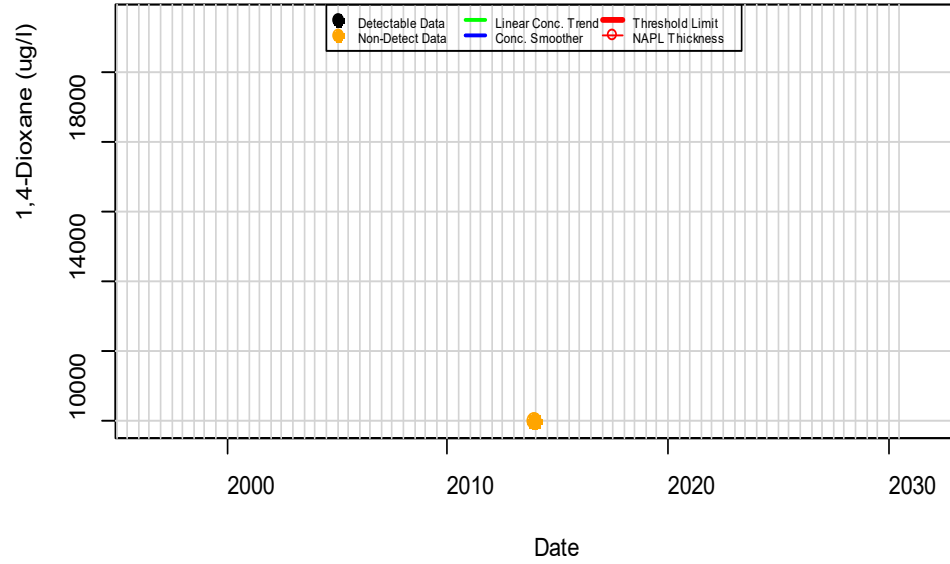
1,4-Dioxane in RX-12 : Aquifer-S



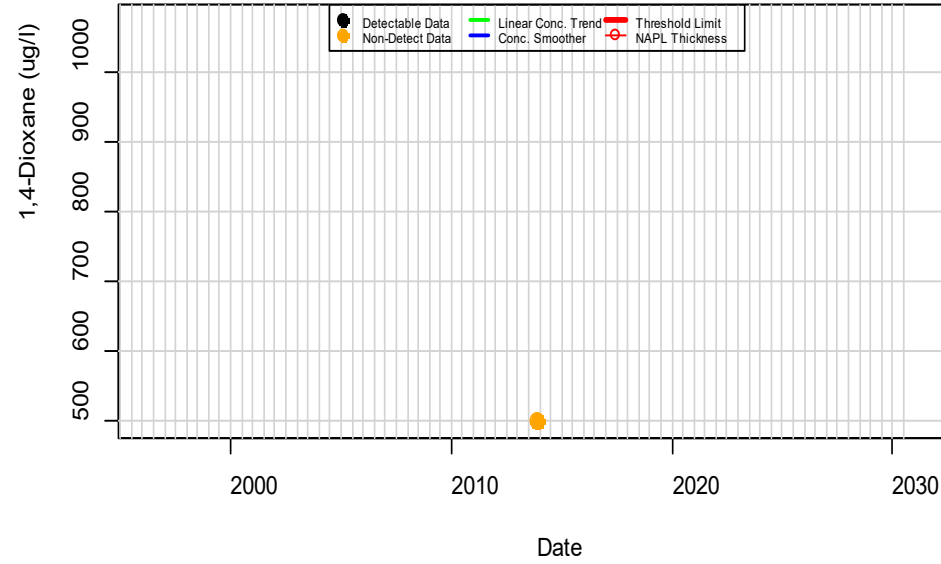
1,4-Dioxane in RX-13 : Aquifer-S



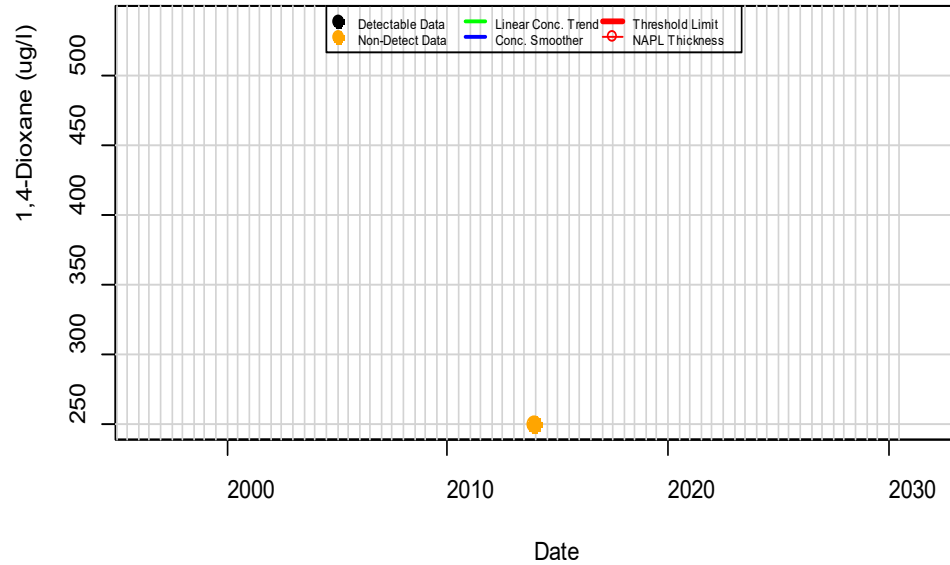
1,4-Dioxane in TWP-01 : Aquifer-S



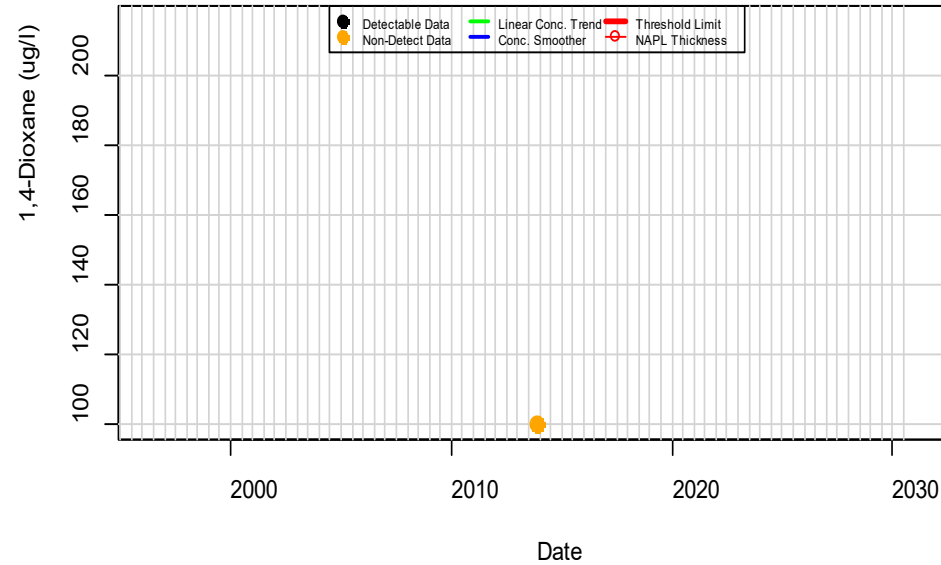
1,4-Dioxane in TWP-02 : Aquifer-S



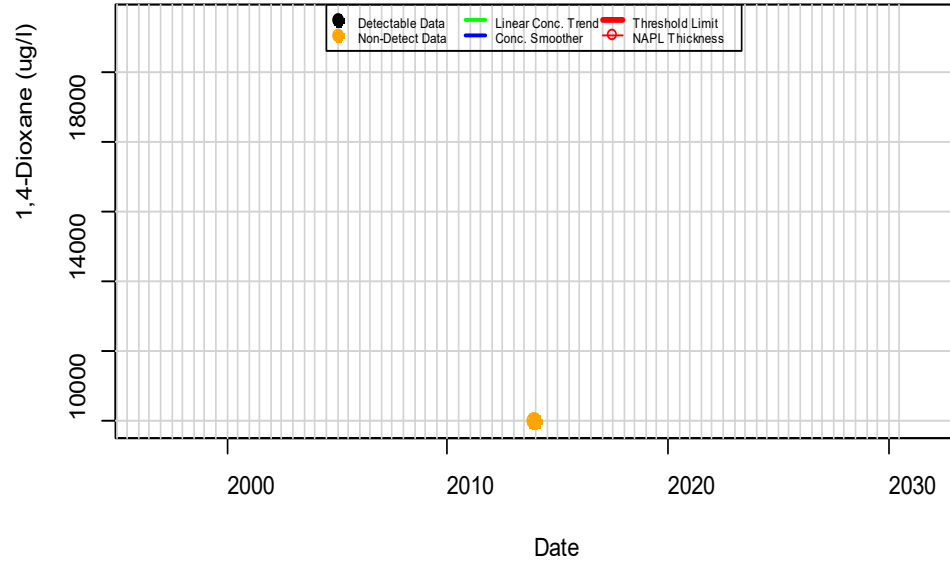
1,4-Dioxane in TWP-03 : Aquifer-S



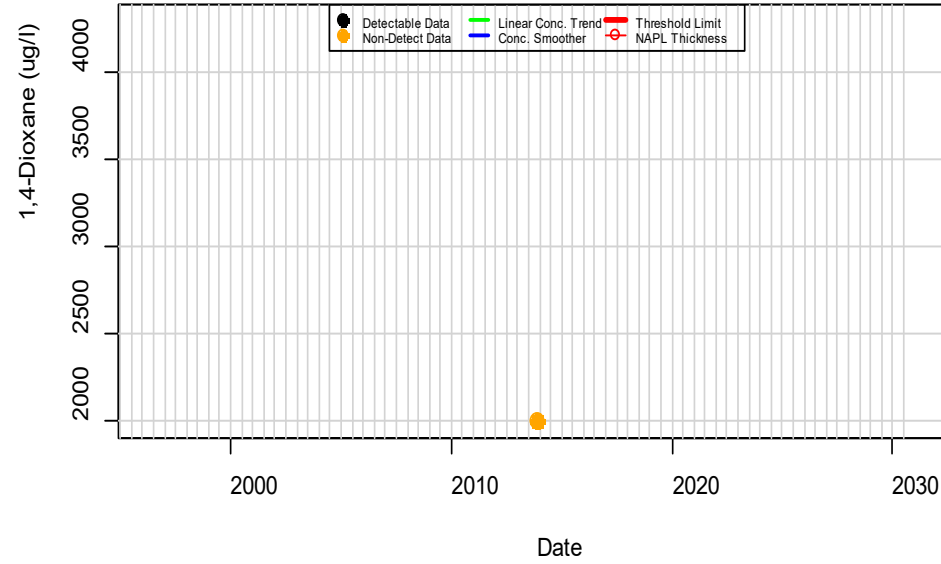
1,4-Dioxane in TWP-04 : Aquifer-S



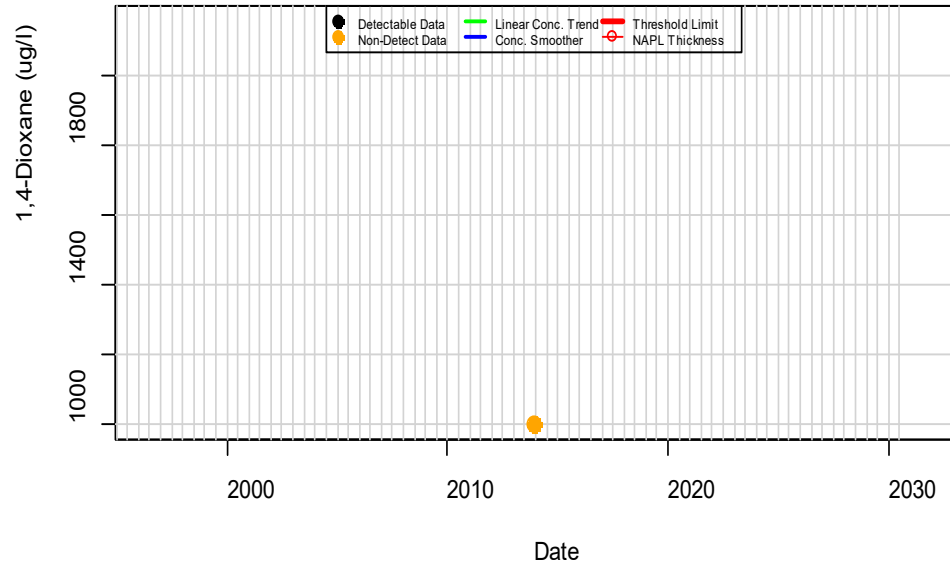
1,4-Dioxane in TWP-05 : Aquifer-S



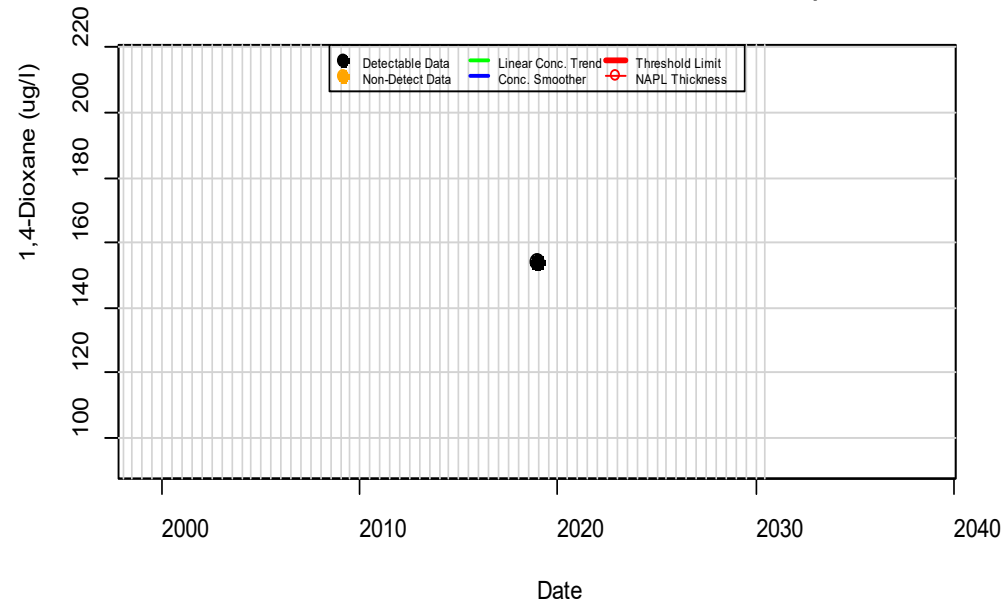
1,4-Dioxane in TWP-06 : Aquifer-S



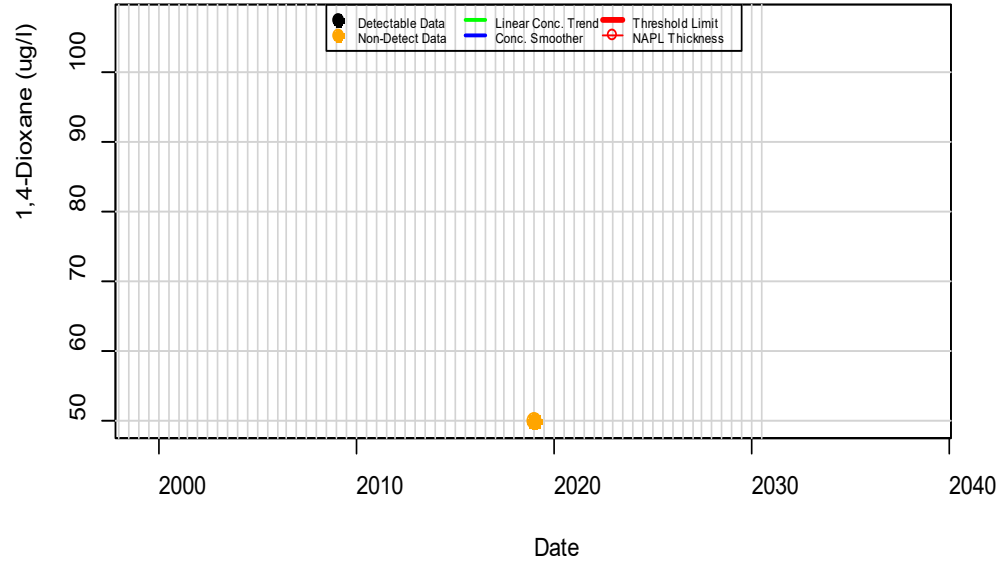
1,4-Dioxane in TWP-07 : Aquifer-S



1,4-Dioxane in TWP-27 : Aquifer-S



1,4-Dioxane in TWP-28 : Aquifer-S



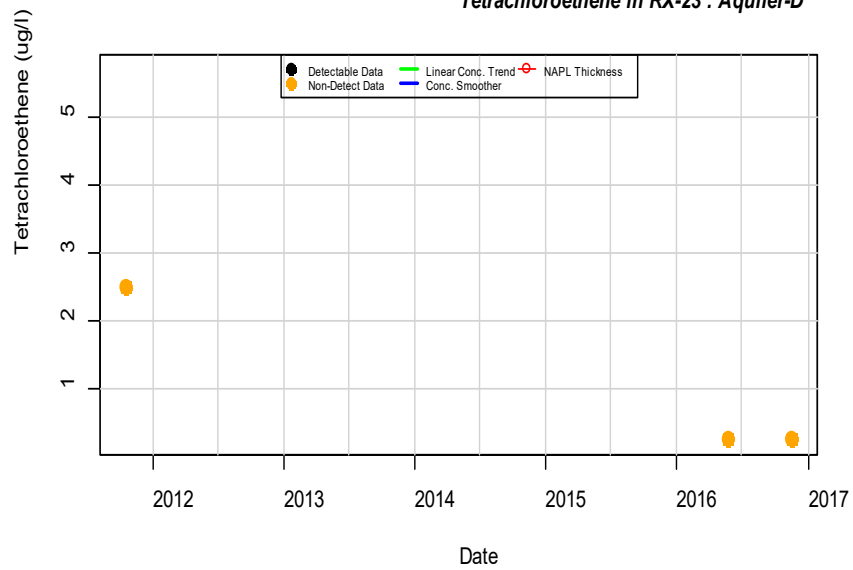


Appendix D – Deep Aquifer Groundwater Concentration Trend Graphs for PCE, TCE, and cis- 1,2-DCE (1995 – 2021)

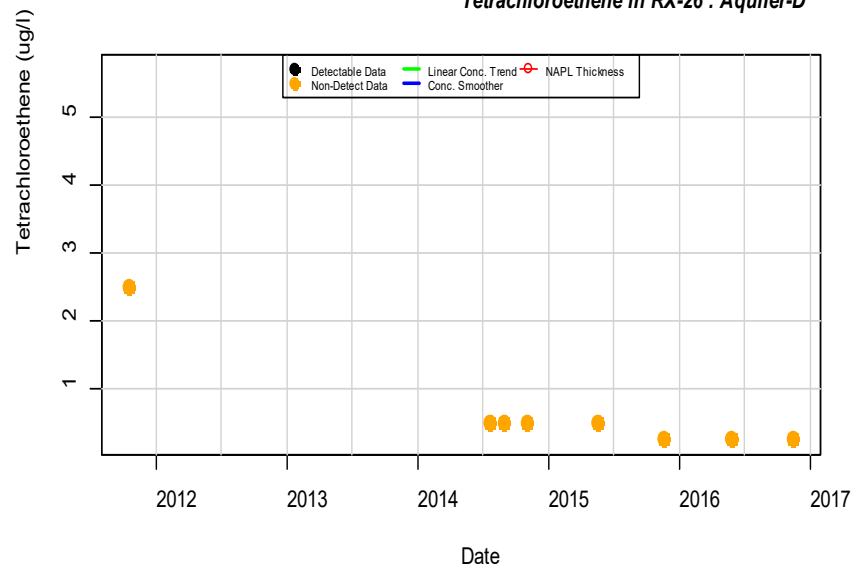
Tetrachloroethene

250 ug/L Threshold

Tetrachloroethene in RX-23 : Aquifer-D

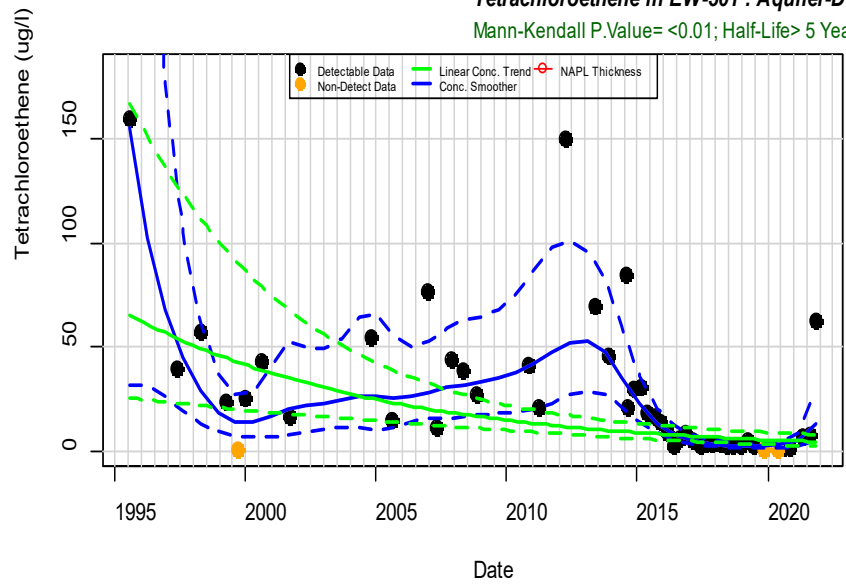


Tetrachloroethene in RX-26 : Aquifer-D



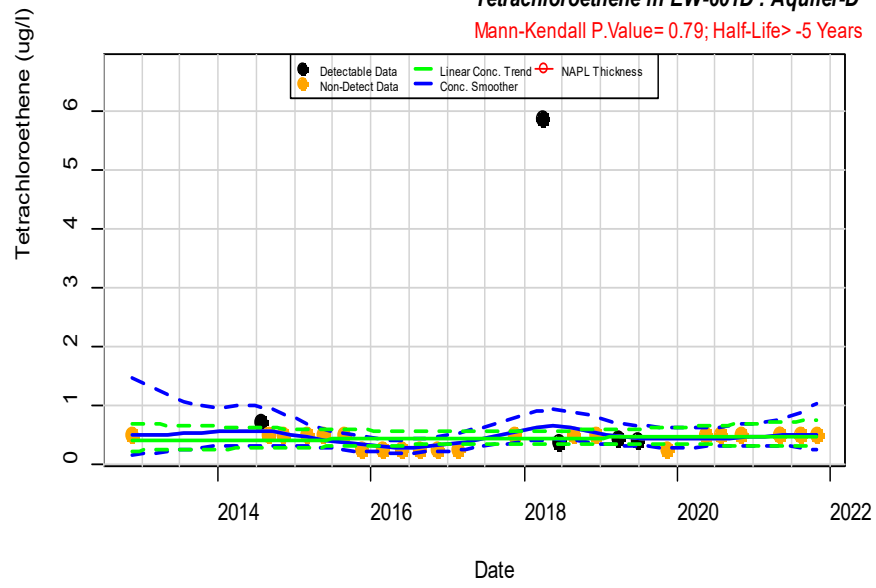
Tetrachloroethene in EW-501 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life> 5 Years



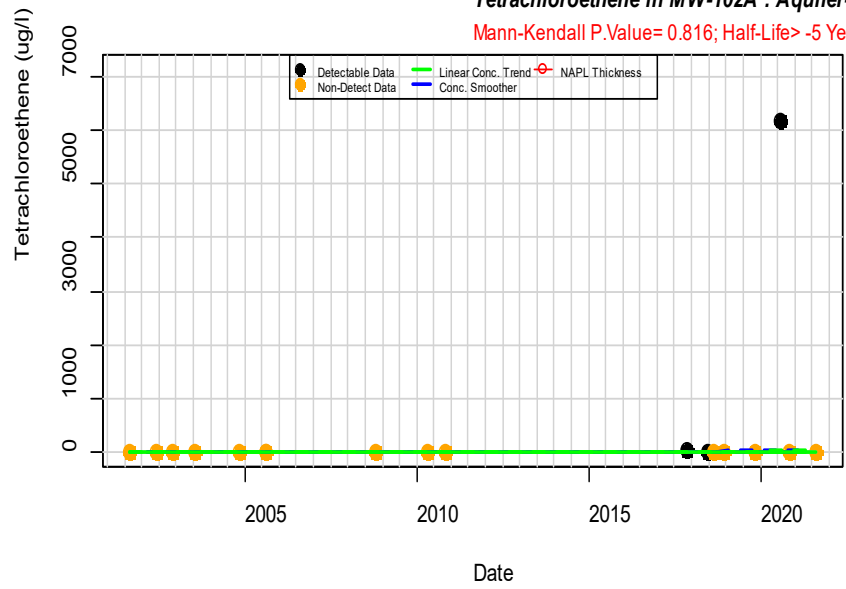
Tetrachloroethene in EW-601D : Aquifer-D

Mann-Kendall P.Value= 0.79; Half-Life> -5 Years

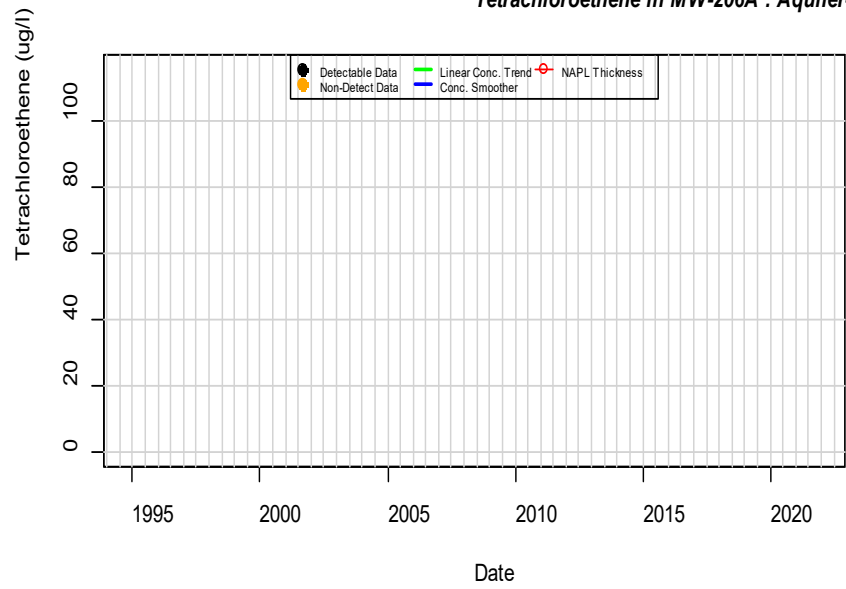


Tetrachloroethene in MW-102A : Aquifer-D

Mann-Kendall P.Value= 0.816; Half-Life> -5 Years

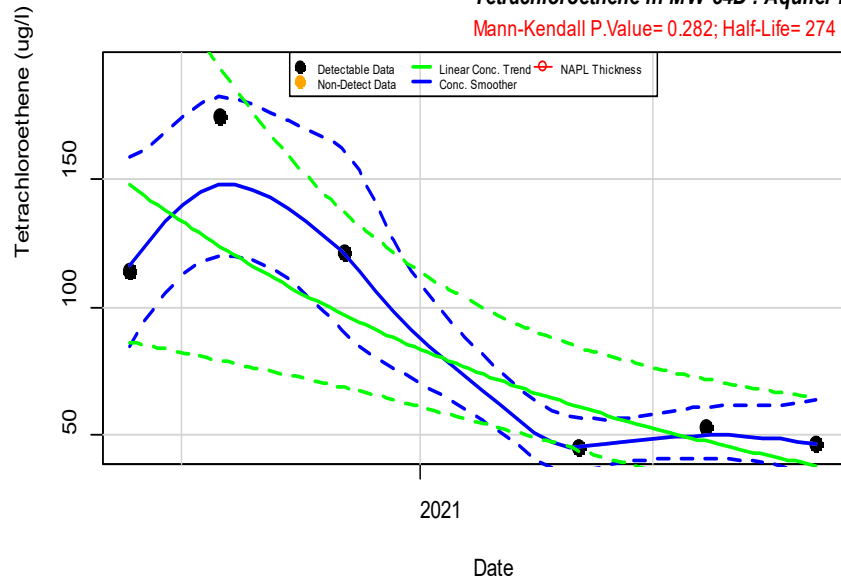


Tetrachloroethene in MW-206A : Aquifer-D



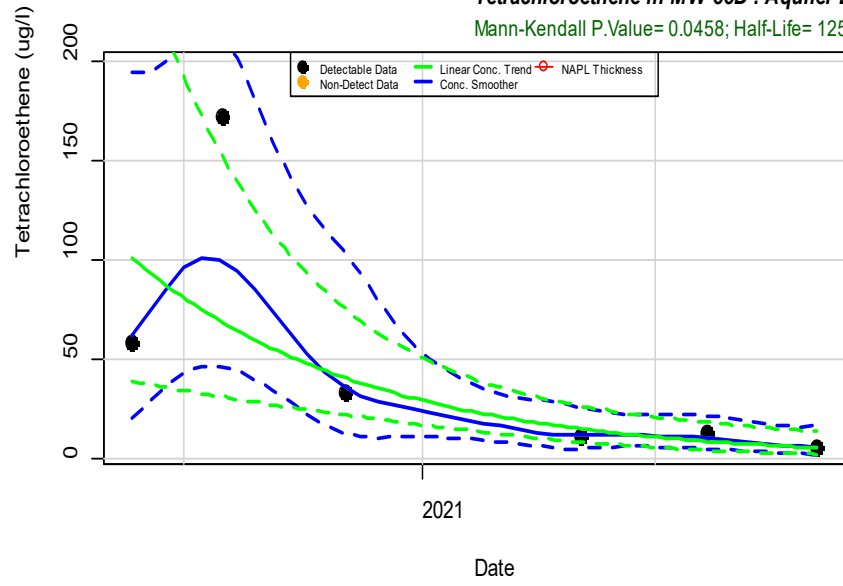
Tetrachloroethene in MW-34D : Aquifer-D

Mann-Kendall P.Value= 0.282; Half-Life= 274 days

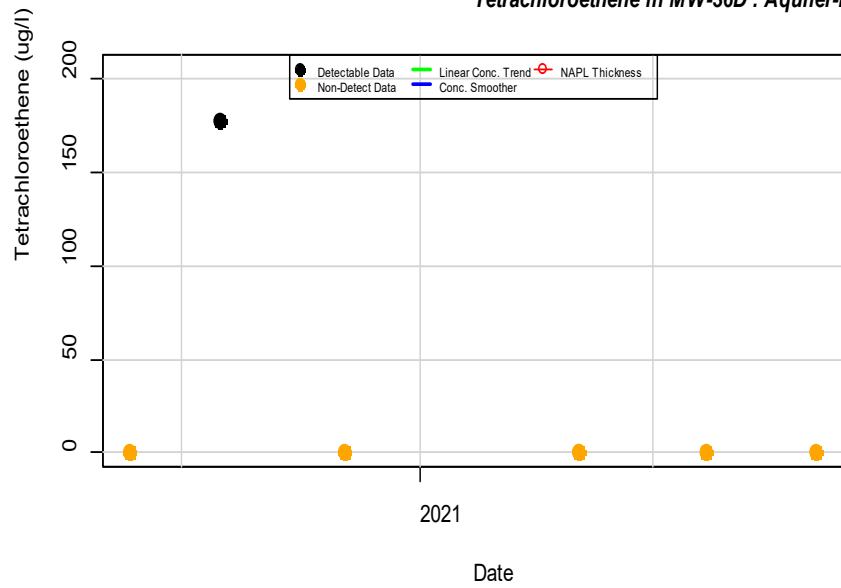


Tetrachloroethene in MW-35D : Aquifer-D

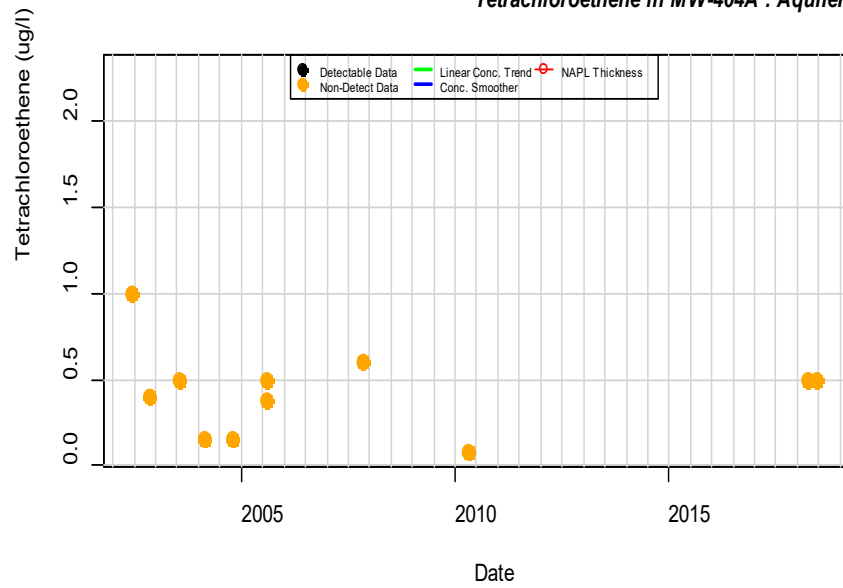
Mann-Kendall P.Value= 0.0458; Half-Life= 125 days



Tetrachloroethene in MW-36D : Aquifer-D

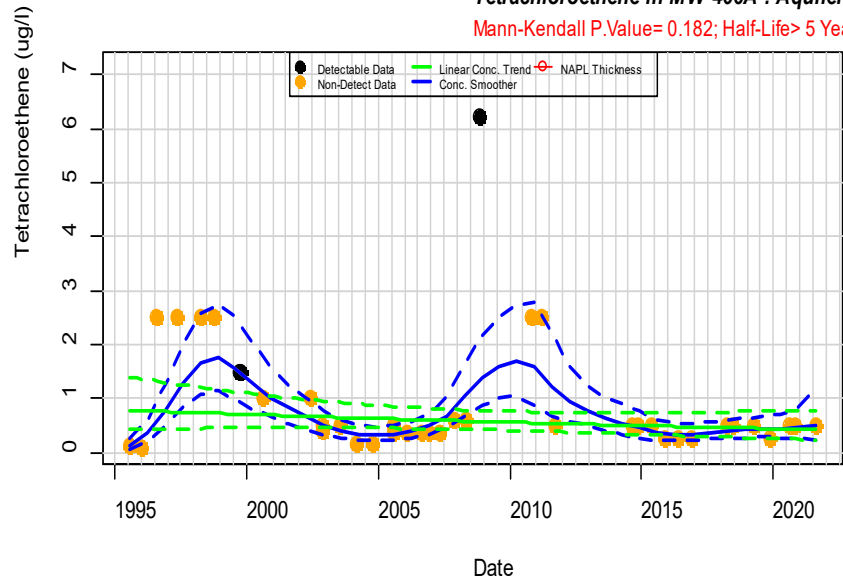


Tetrachloroethene in MW-404A : Aquifer-D



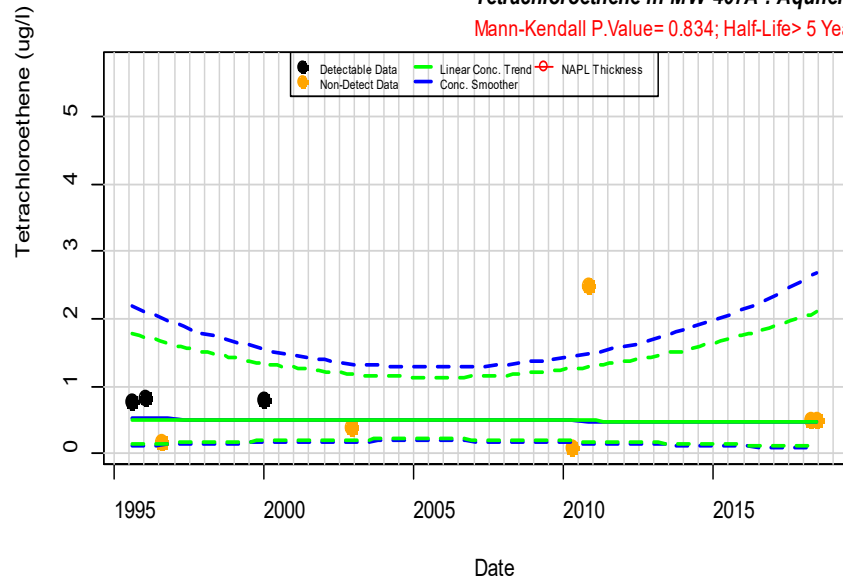
Tetrachloroethene in MW-406A : Aquifer-D

Mann-Kendall P.Value= 0.182; Half-Life> 5 Years



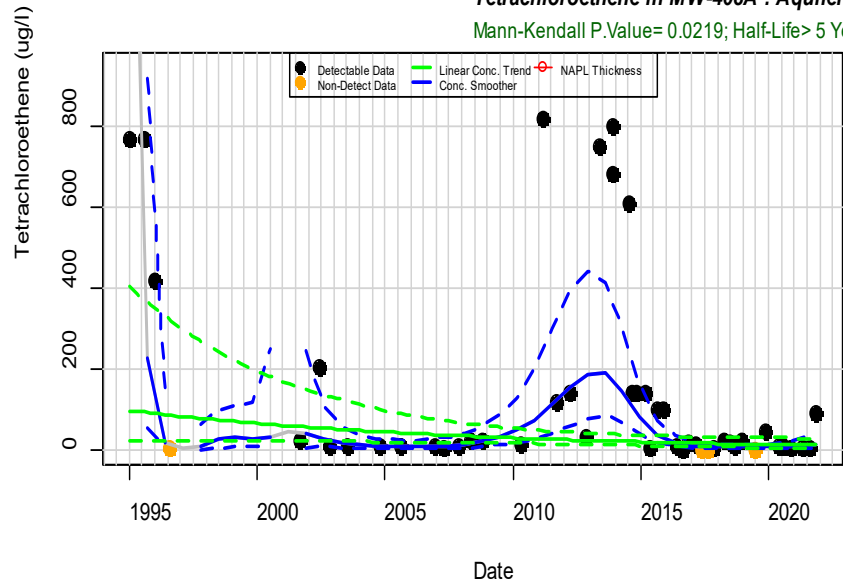
Tetrachloroethene in MW-407A : Aquifer-D

Mann-Kendall P.Value= 0.834; Half-Life> 5 Years



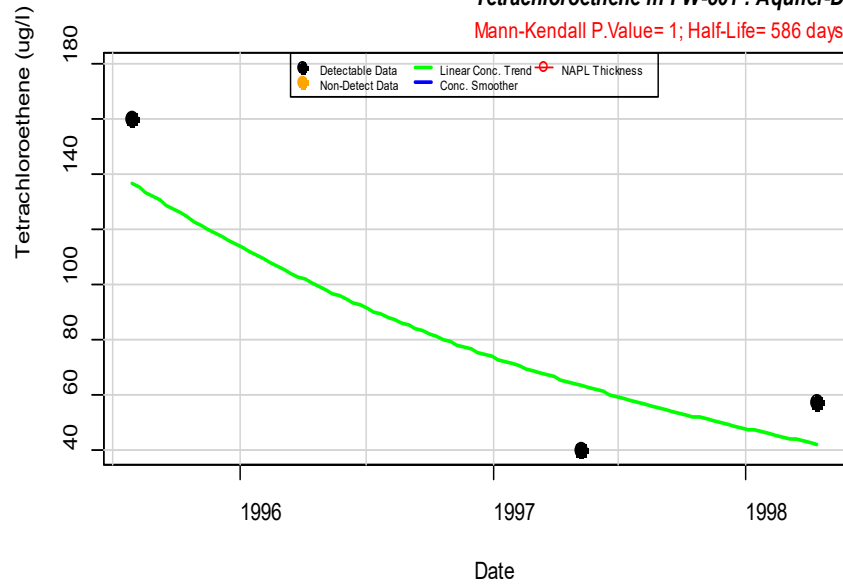
Tetrachloroethene in MW-408A : Aquifer-D

Mann-Kendall P.Value= 0.0219; Half-Life> 5 Years

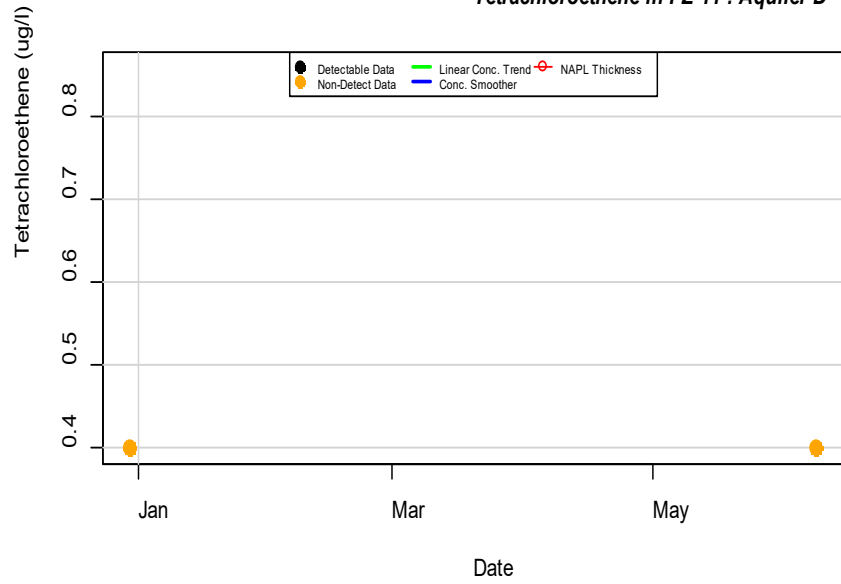


Tetrachloroethene in PW-501 : Aquifer-D

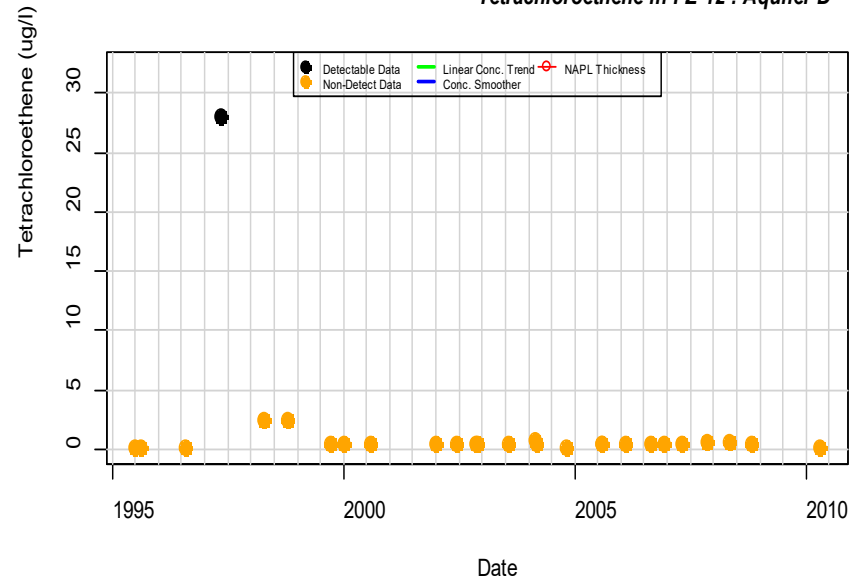
Mann-Kendall P.Value= 1; Half-Life= 586 days



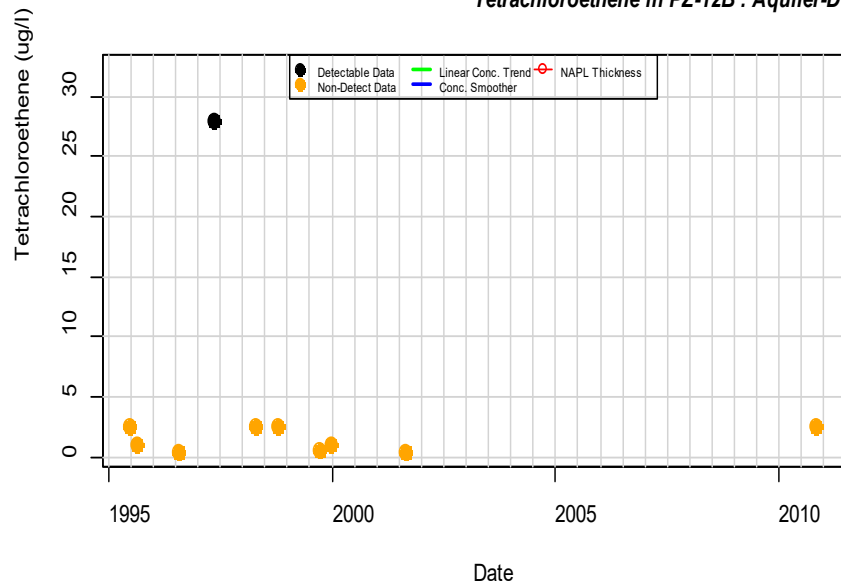
Tetrachloroethene in PZ-11 : Aquifer-D



Tetrachloroethene in PZ-12 : Aquifer-D

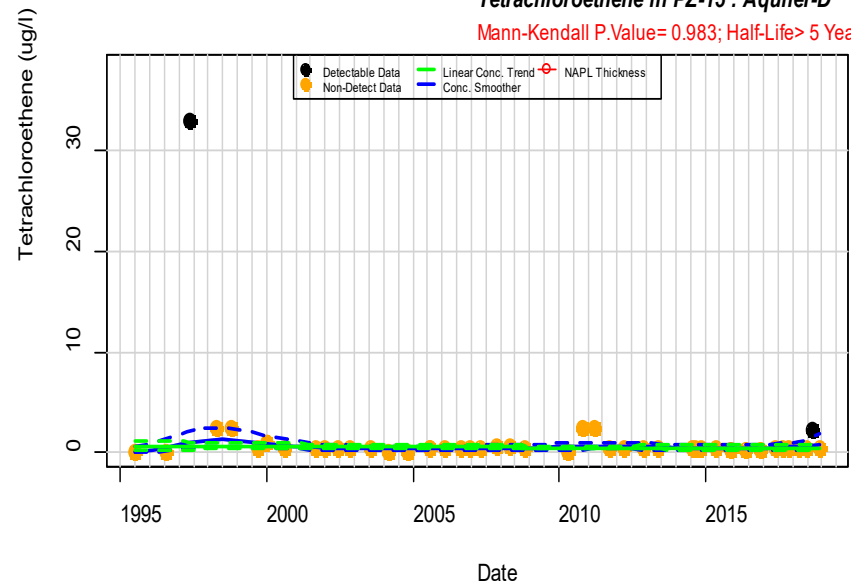


Tetrachloroethene in PZ-12B : Aquifer-D



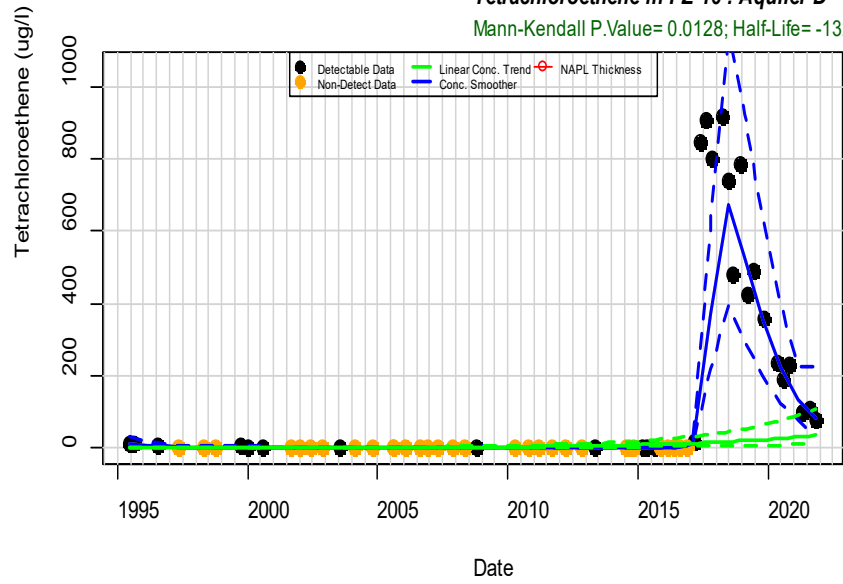
Tetrachloroethene in PZ-15 : Aquifer-D

Mann-Kendall P.Value= 0.983; Half-Life> 5 Years



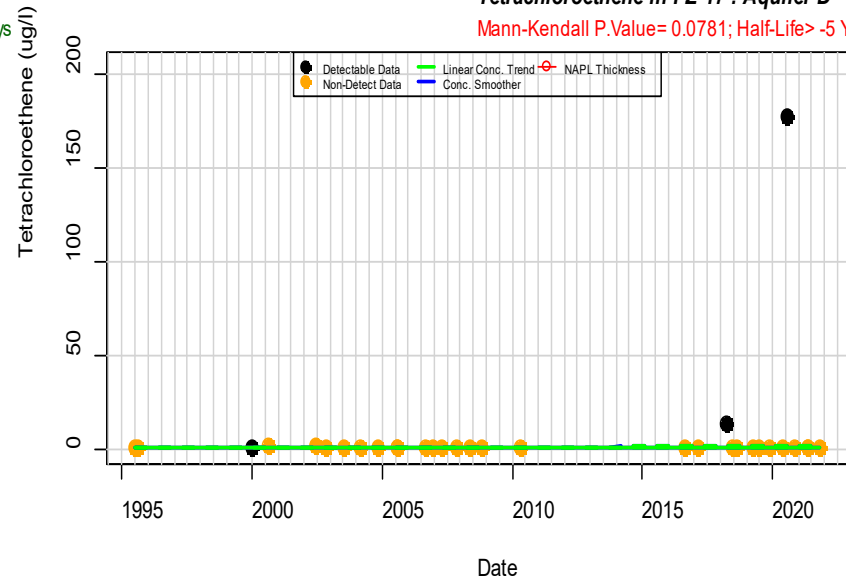
Tetrachloroethene in PZ-16 : Aquifer-D

Mann-Kendall P.Value= 0.0128; Half-Life= -1328 days



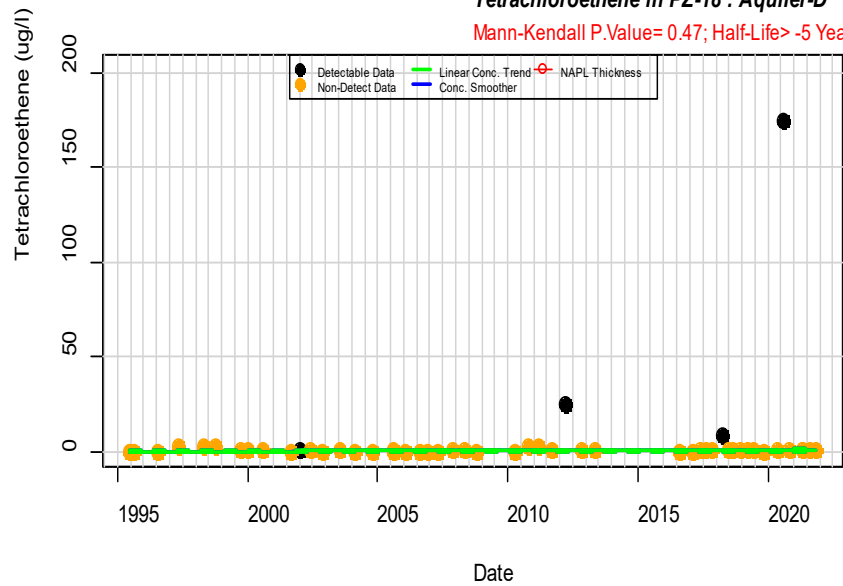
Tetrachloroethene in PZ-17 : Aquifer-D

Mann-Kendall P.Value= 0.0781; Half-Life> -5 Years



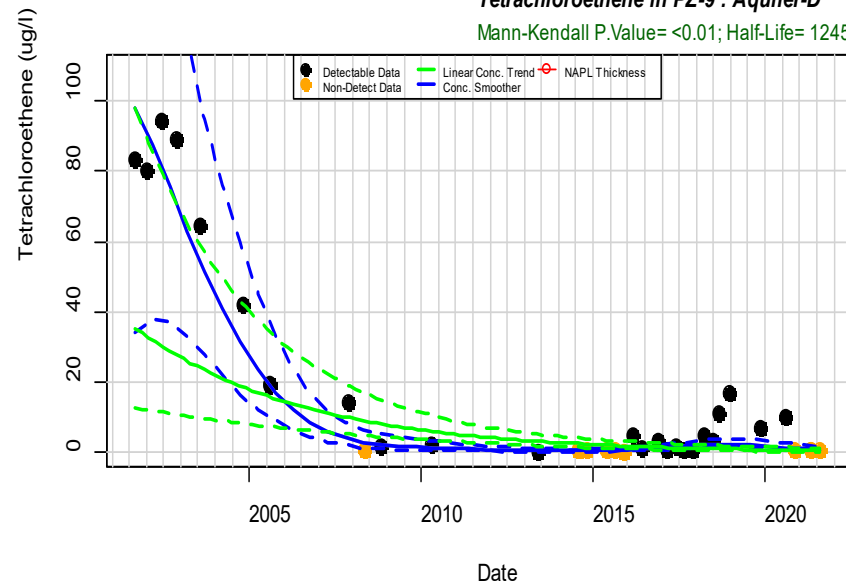
Tetrachloroethene in PZ-18 : Aquifer-D

Mann-Kendall P.Value= 0.47; Half-Life> -5 Years

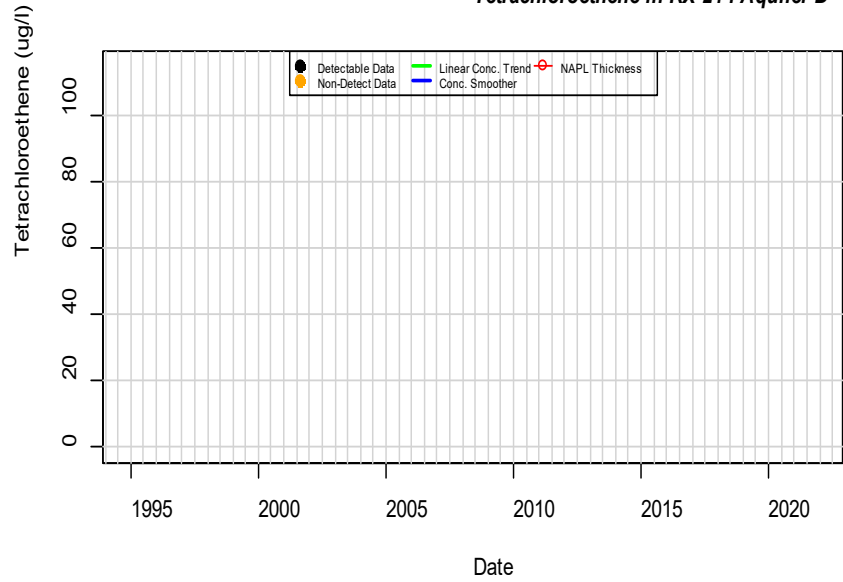


Tetrachloroethene in PZ-9 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life= 1245 days

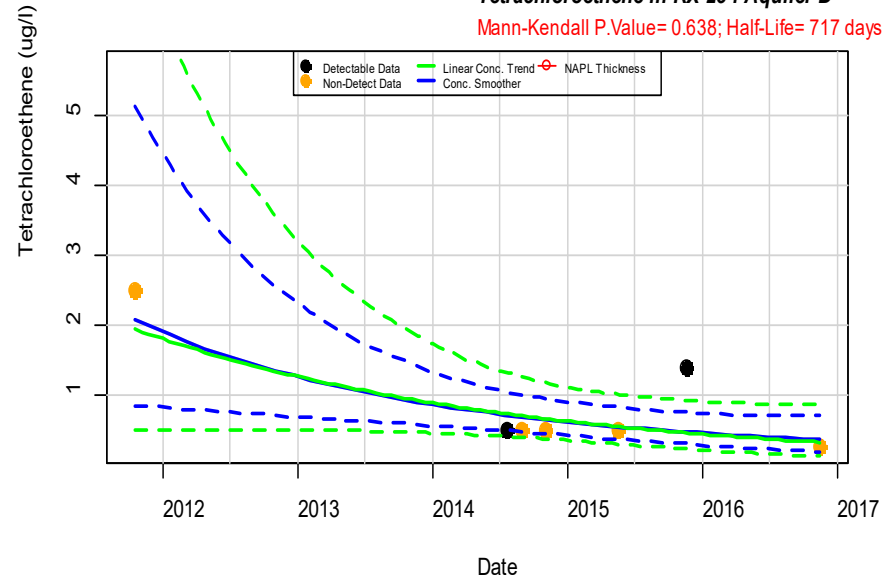


Tetrachloroethene in RX-24 : Aquifer-D



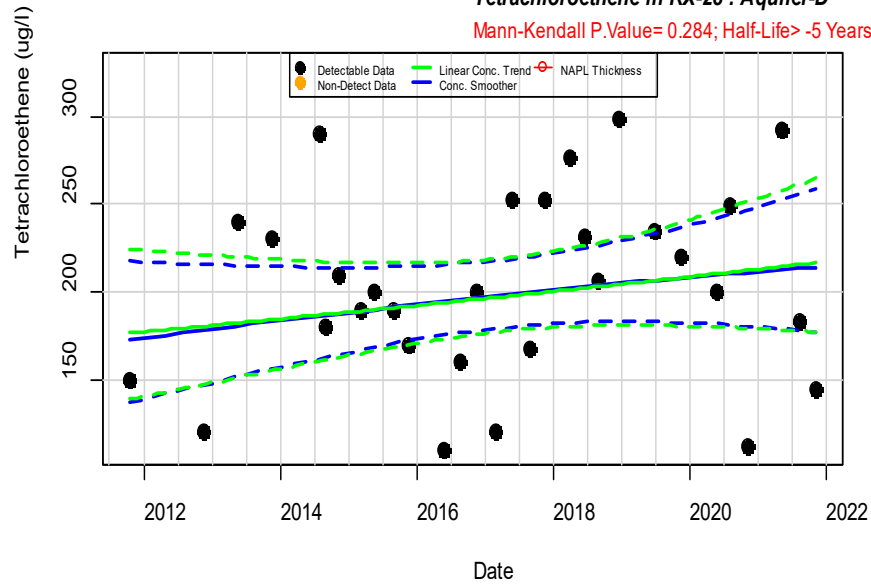
Tetrachloroethene in RX-25 : Aquifer-D

Mann-Kendall P.Value= 0.638; Half-Life= 717 days



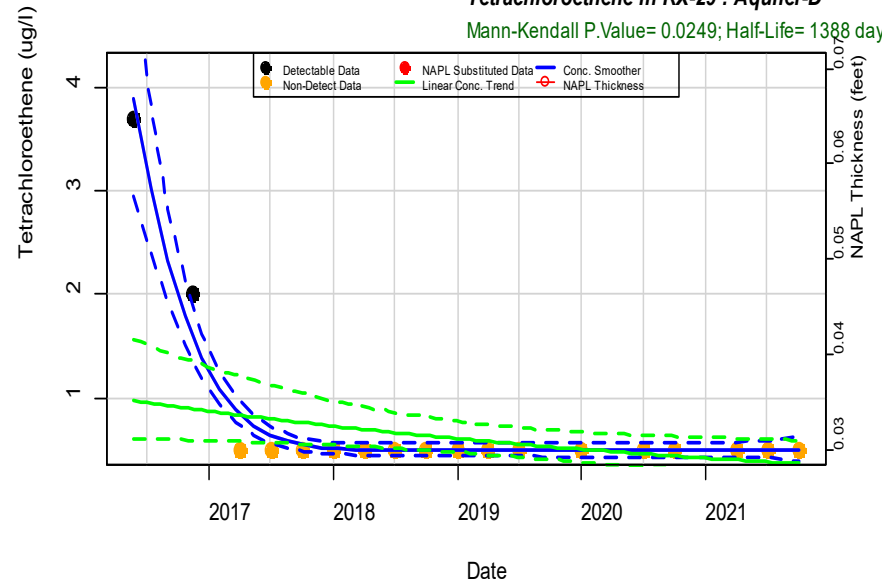
Tetrachloroethene in RX-28 : Aquifer-D

Mann-Kendall P.Value= 0.284; Half-Life> -5 Years



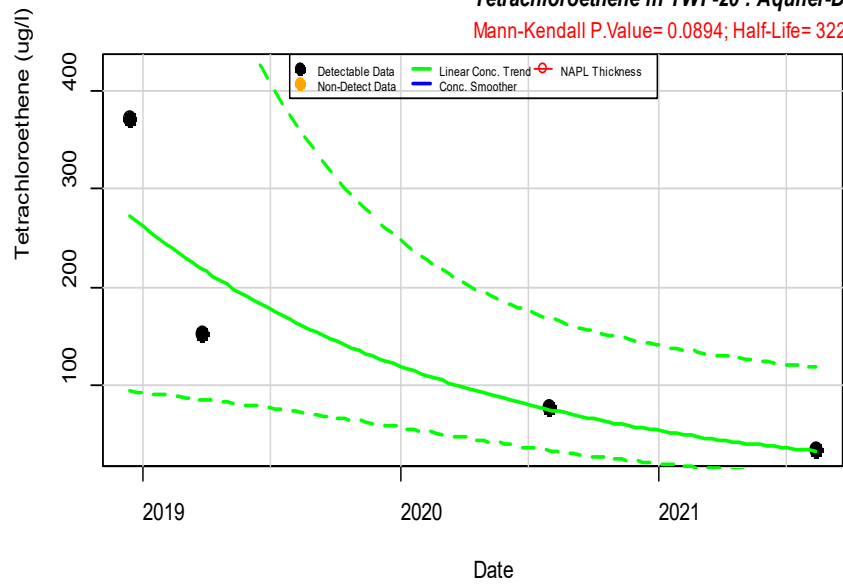
Tetrachloroethene in RX-29 : Aquifer-D

Mann-Kendall P.Value= 0.0249; Half-Life= 1388 days



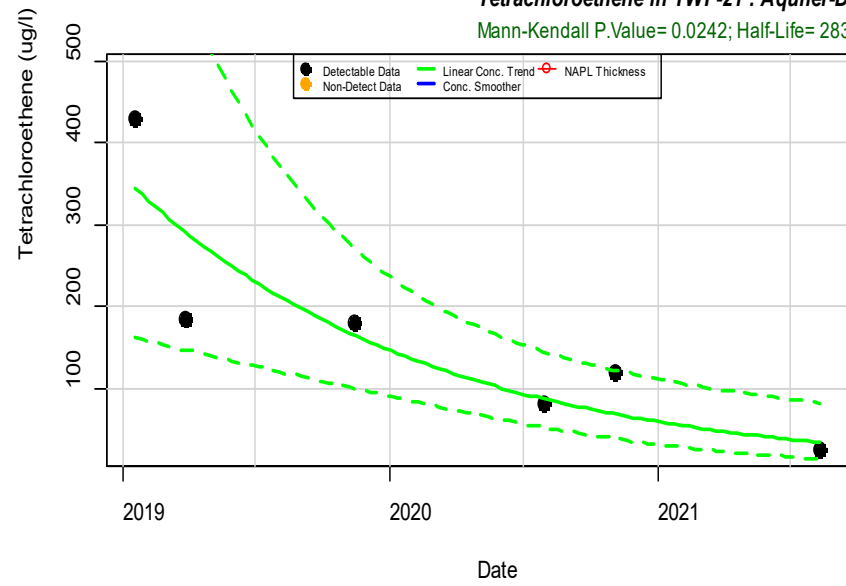
Tetrachloroethene in TWP-20 : Aquifer-D

Mann-Kendall P.Value= 0.0894; Half-Life= 322 days



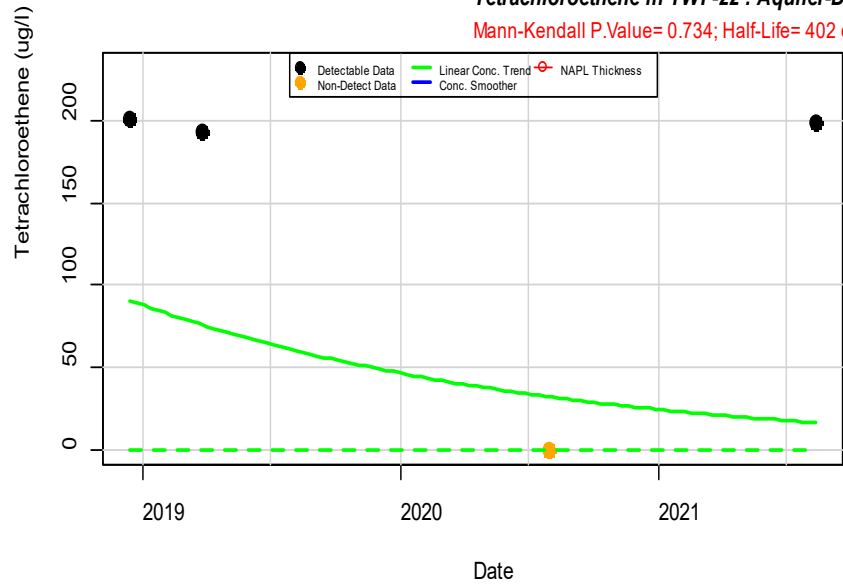
Tetrachloroethene in TWP-21 : Aquifer-D

Mann-Kendall P.Value= 0.0242; Half-Life= 283 days

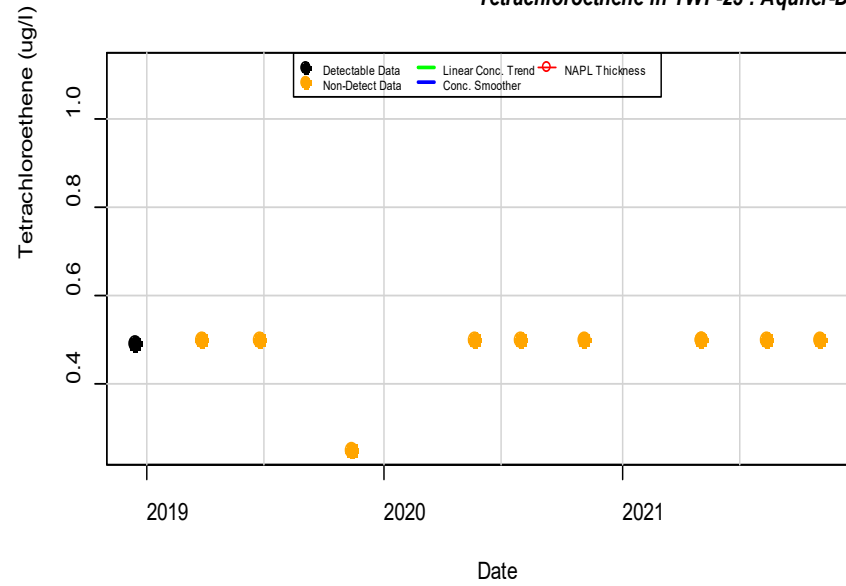


Tetrachloroethene in TWP-22 : Aquifer-D

Mann-Kendall P.Value= 0.734; Half-Life= 402 days

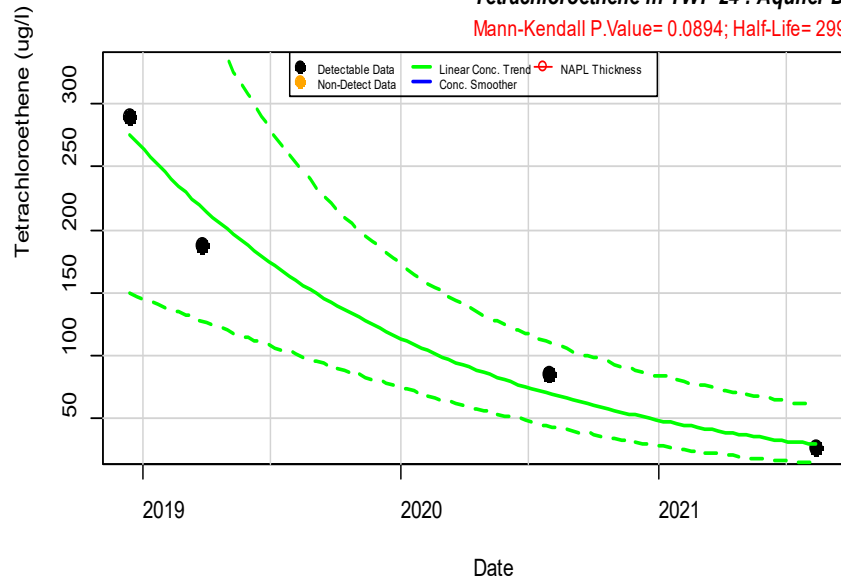


Tetrachloroethene in TWP-23 : Aquifer-D



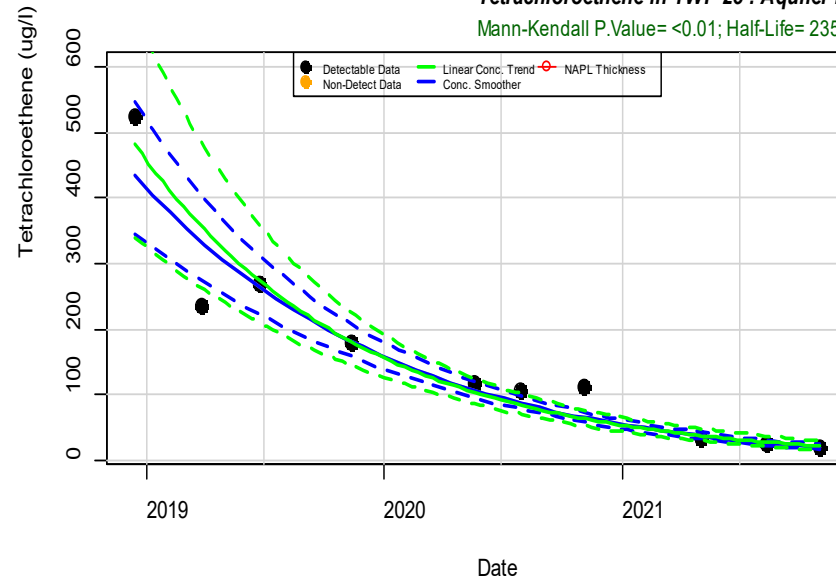
Tetrachloroethene in TWP-24 : Aquifer-D

Mann-Kendall P.Value= 0.0894; Half-Life= 299 days



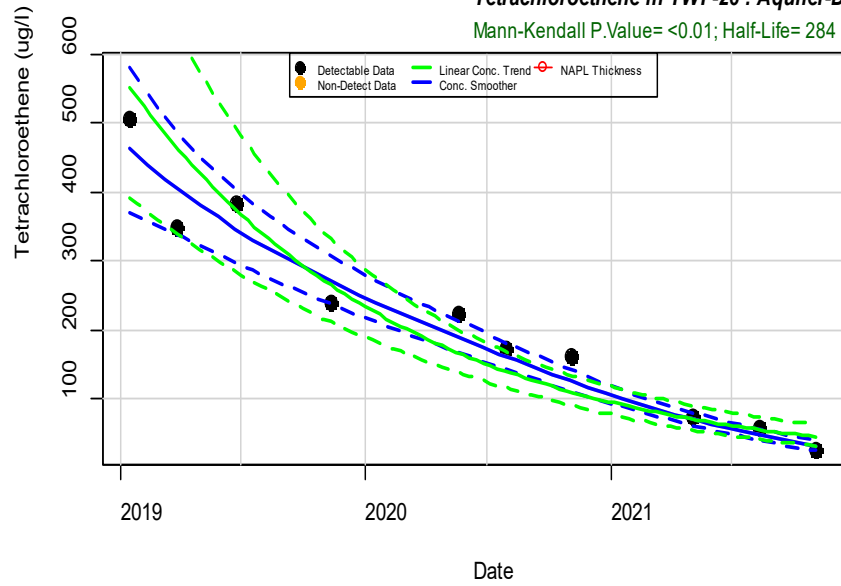
Tetrachloroethene in TWP-25 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life= 235 days



Tetrachloroethene in TWP-26 : Aquifer-D

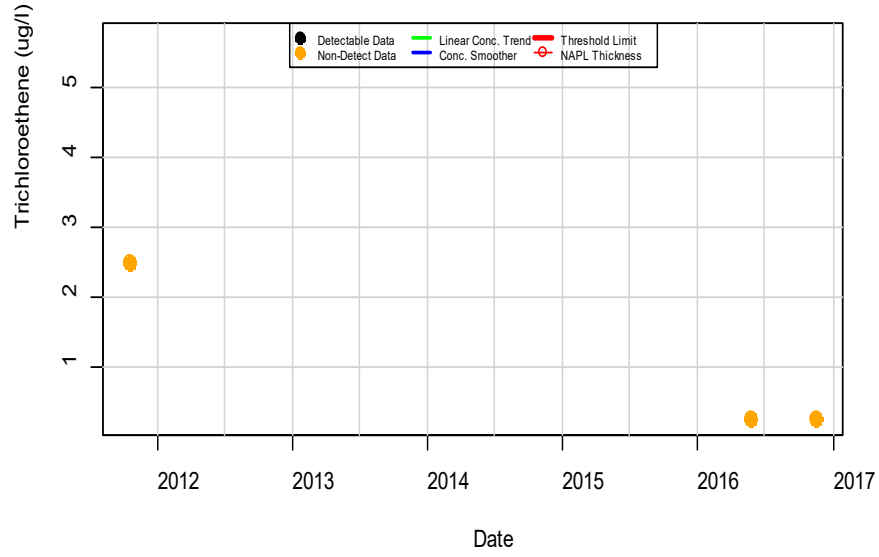
Mann-Kendall P.Value= <0.01; Half-Life= 284 days



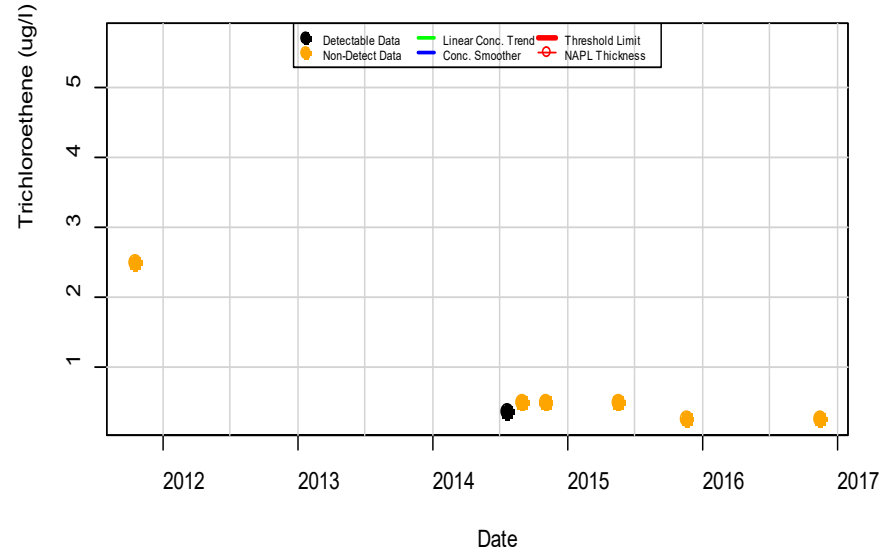
Trichloroethene

12 ug/L Threshold

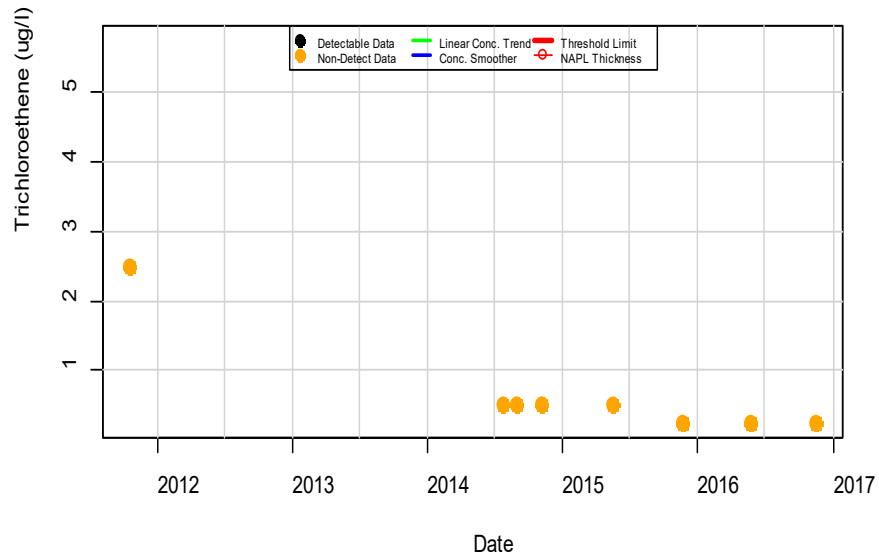
Trichloroethene in RX-23 : Aquifer-D



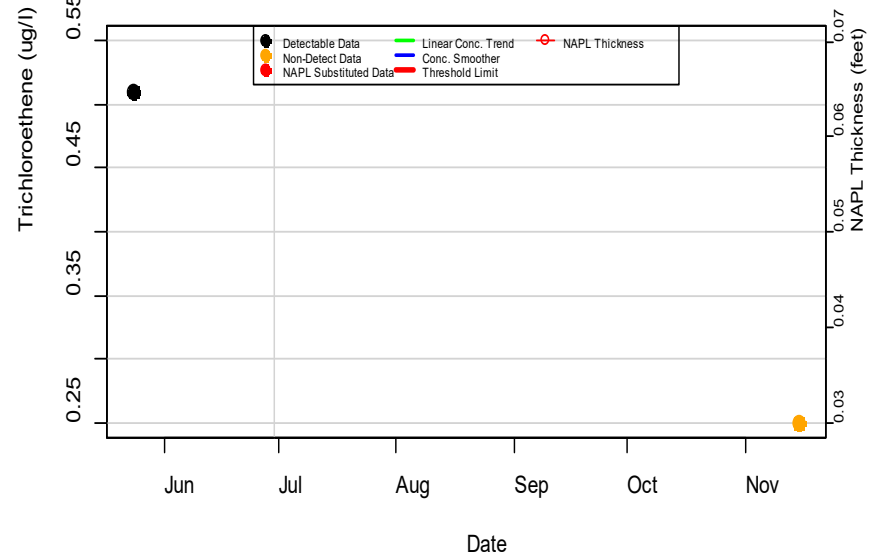
Trichloroethene in RX-25 : Aquifer-D



Trichloroethene in RX-26 : Aquifer-D

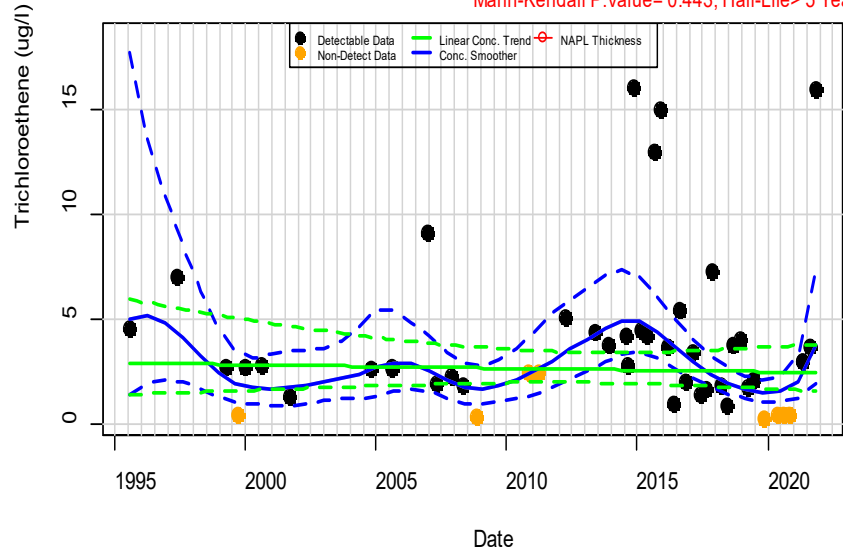


Trichloroethene in RX-29 : Aquifer-D

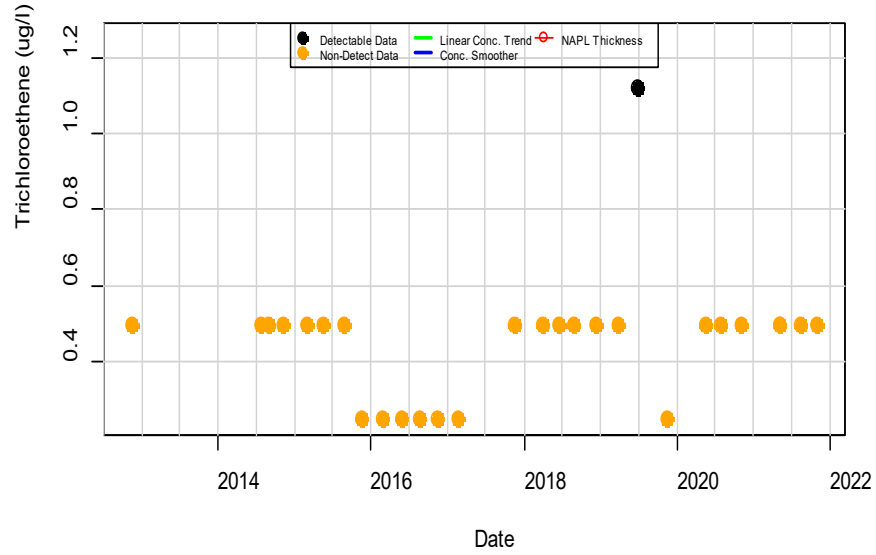


Trichloroethene in EW-501 : Aquifer-D

Mann-Kendall P.Value= 0.443; Half-Life> 5 Years

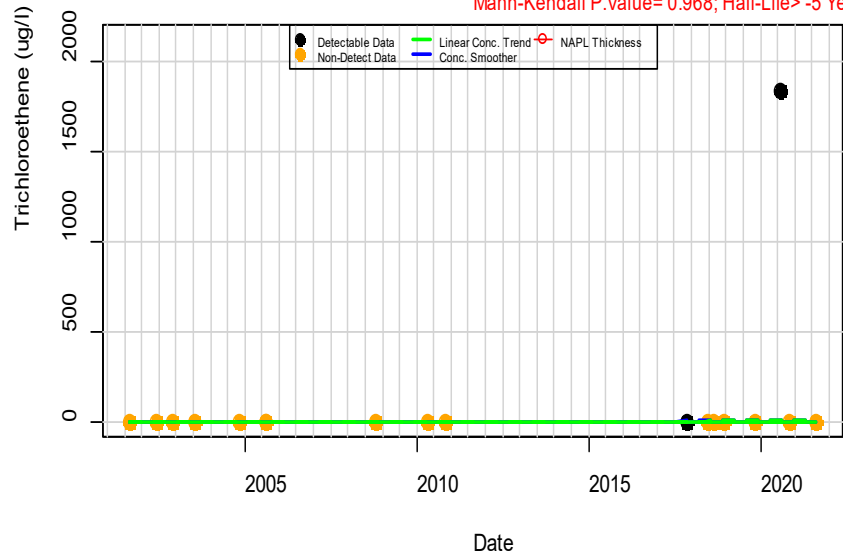


Trichloroethene in EW-601D : Aquifer-D

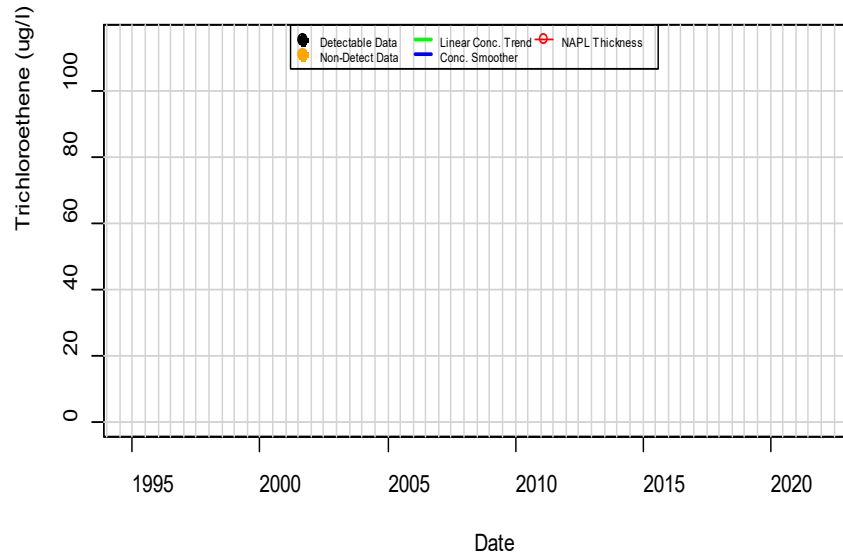


Trichloroethene in MW-102A : Aquifer-D

Mann-Kendall P.Value= 0.968; Half-Life> -5 Years

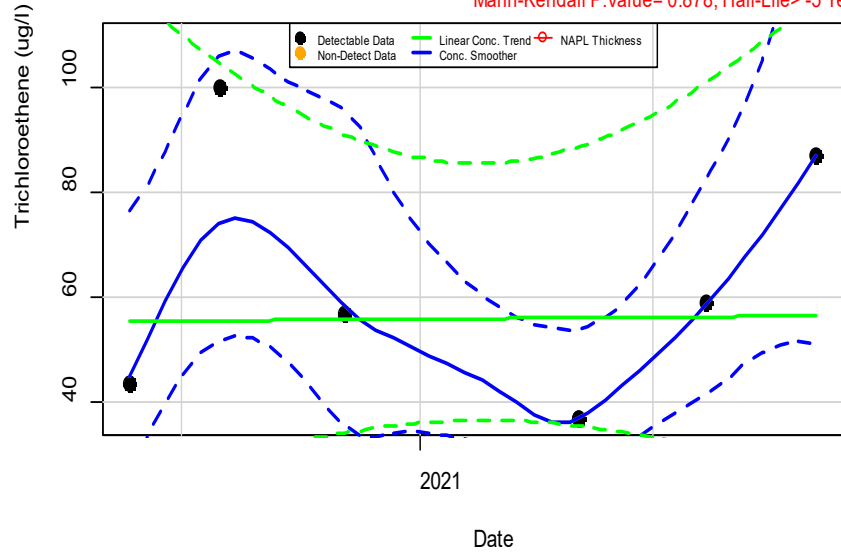


Trichloroethene in MW-206A : Aquifer-D



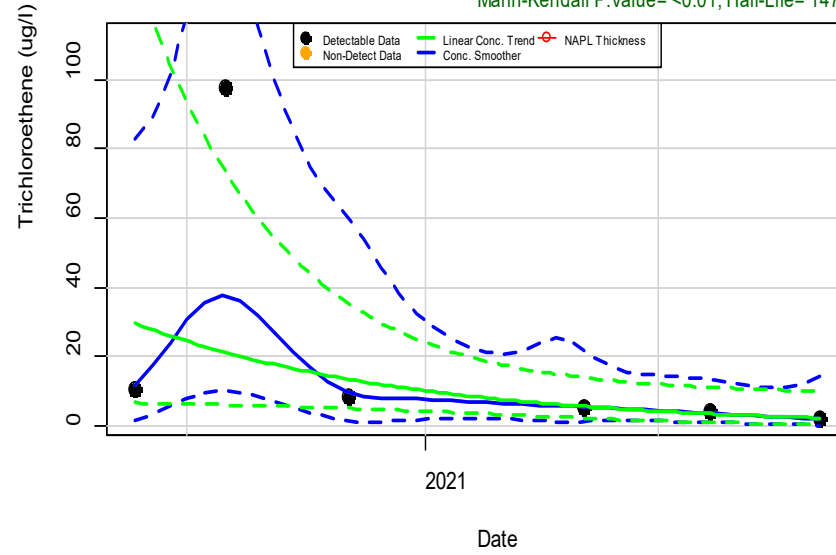
Trichloroethene in MW-34D : Aquifer-D

Mann-Kendall P.Value= 0.878; Half-Life> -5 Years

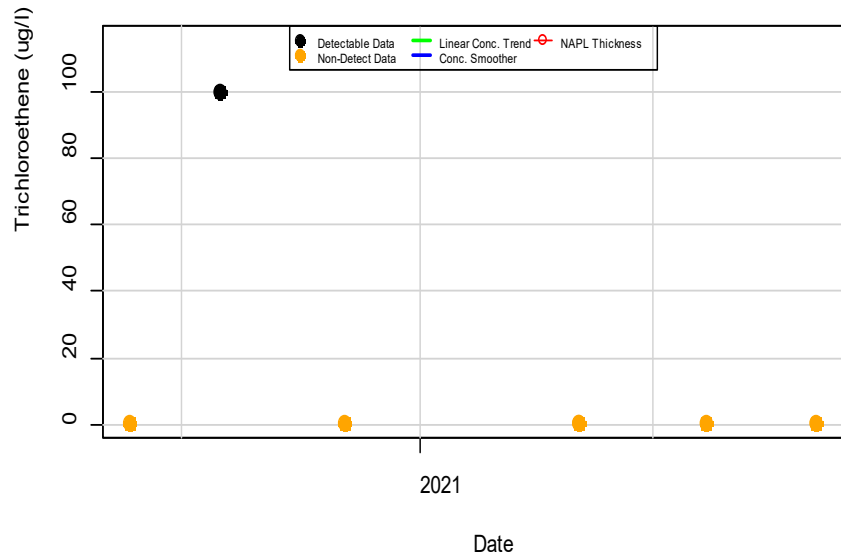


Trichloroethene in MW-35D : Aquifer-D

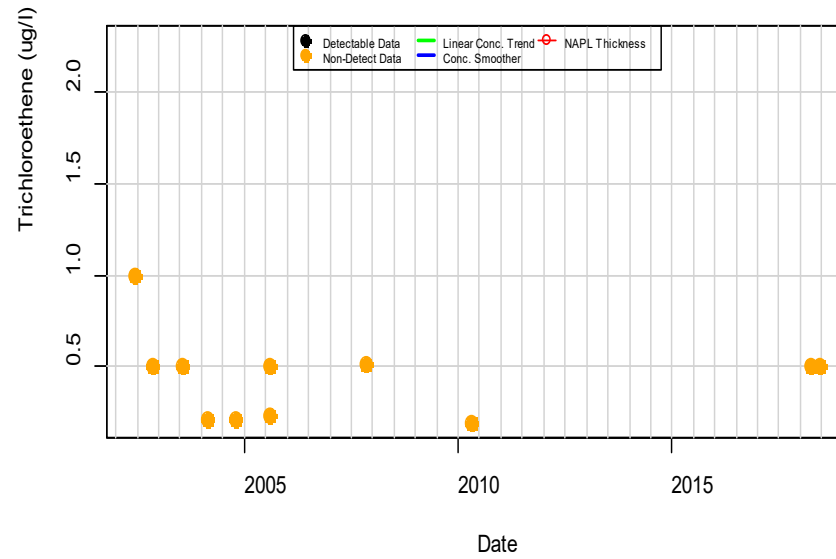
Mann-Kendall P.Value= <0.01; Half-Life= 147 days



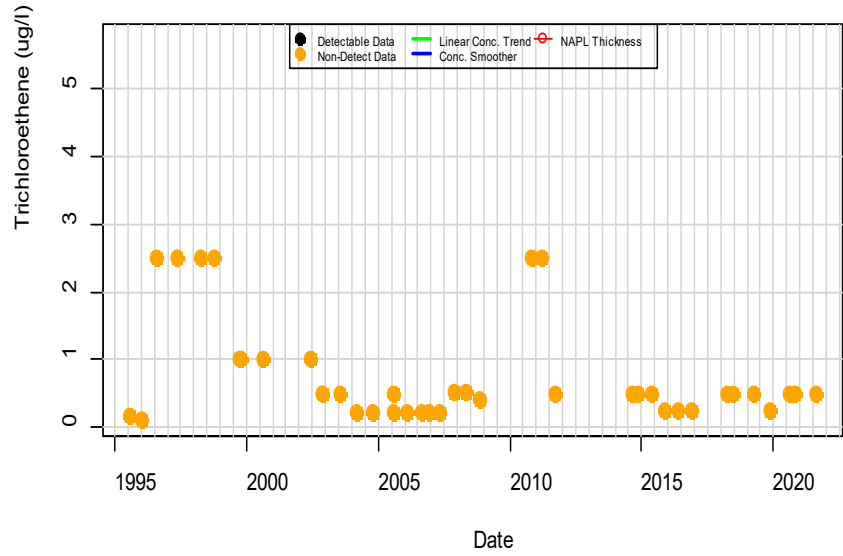
Trichloroethene in MW-36D : Aquifer-D



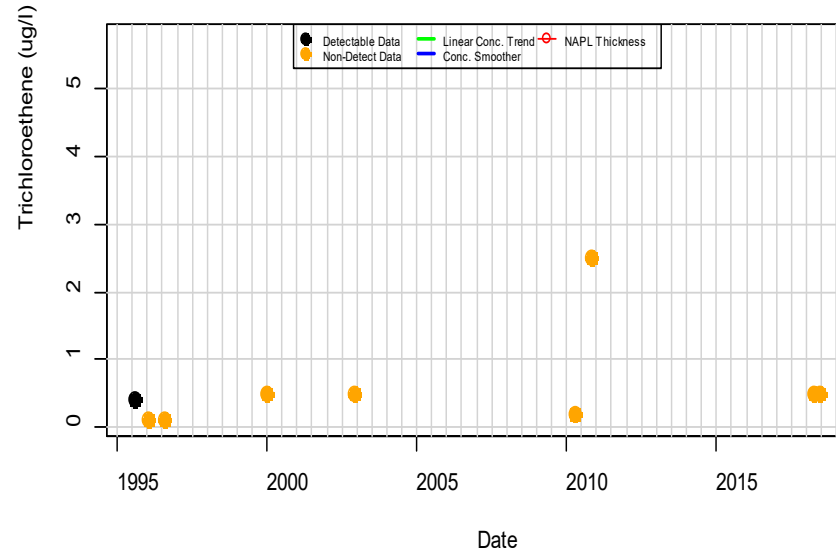
Trichloroethene in MW-404A : Aquifer-D



Trichloroethene in MW-406A : Aquifer-D

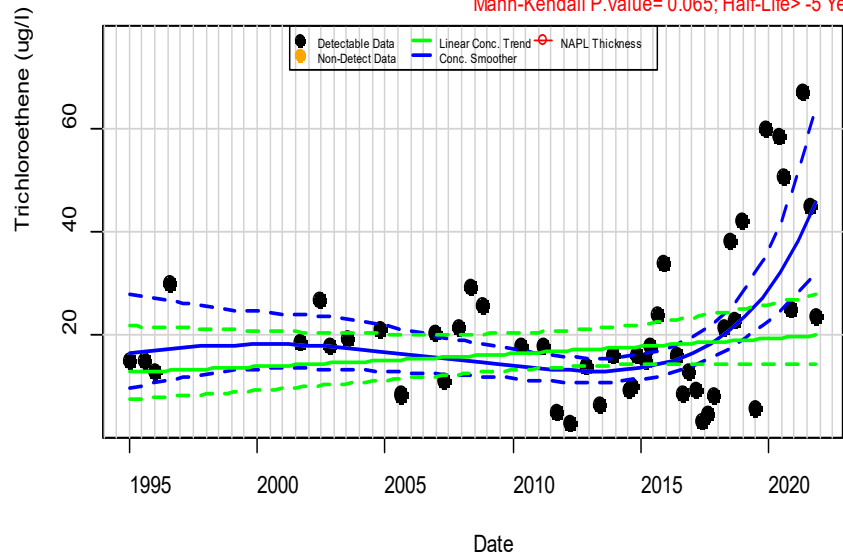


Trichloroethene in MW-407A : Aquifer-D



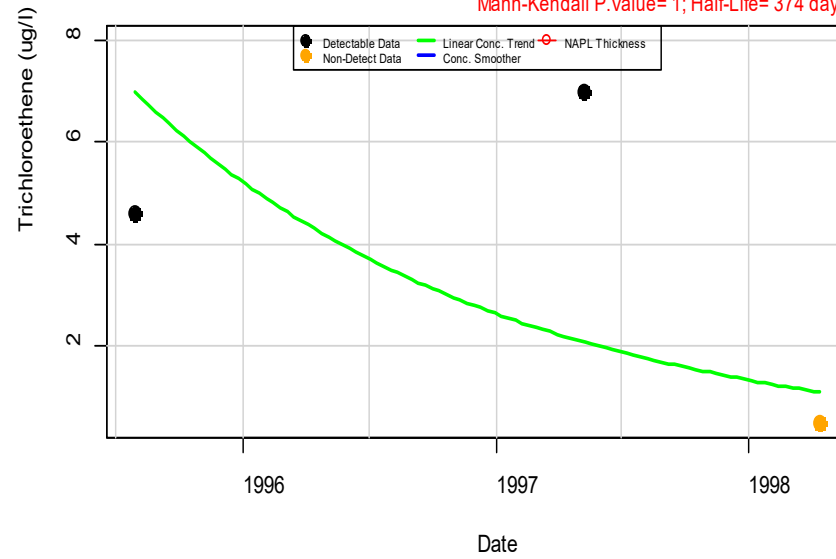
Trichloroethene in MW-408A : Aquifer-D

Mann-Kendall P.Value= 0.065; Half-Life> -5 Years

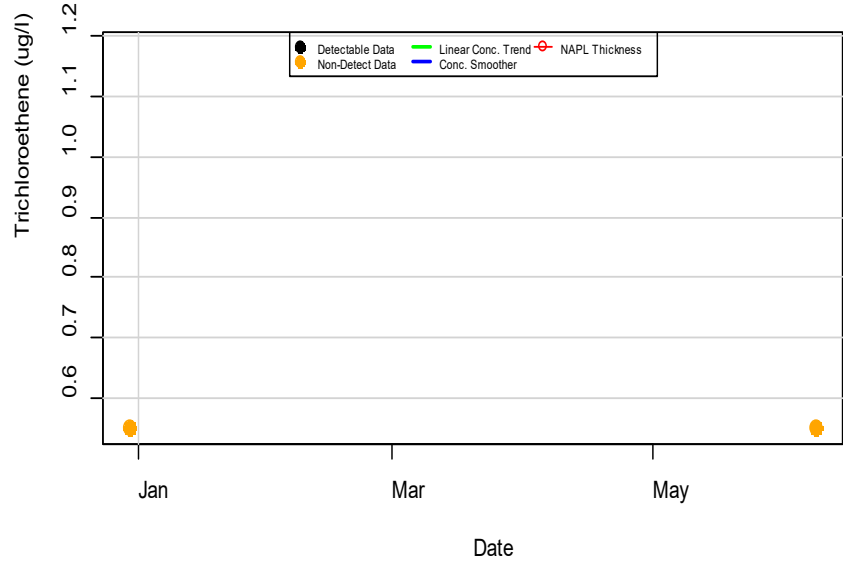


Trichloroethene in PW-501 : Aquifer-D

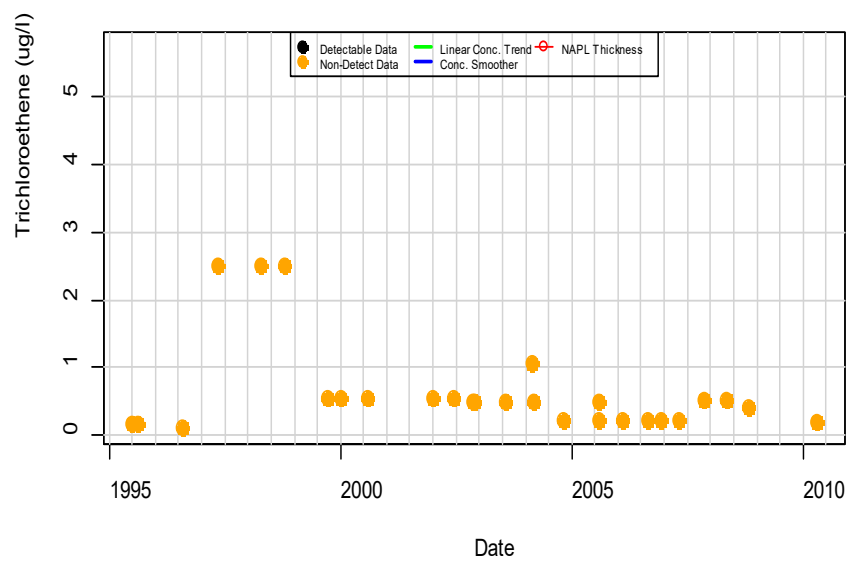
Mann-Kendall P.Value= 1; Half-Life= 374 days



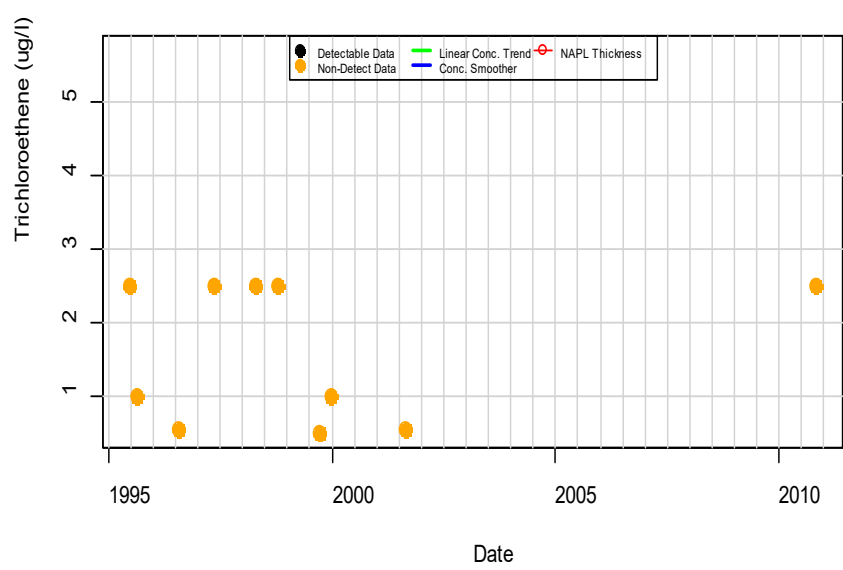
Trichloroethene in PZ-11 : Aquifer-D



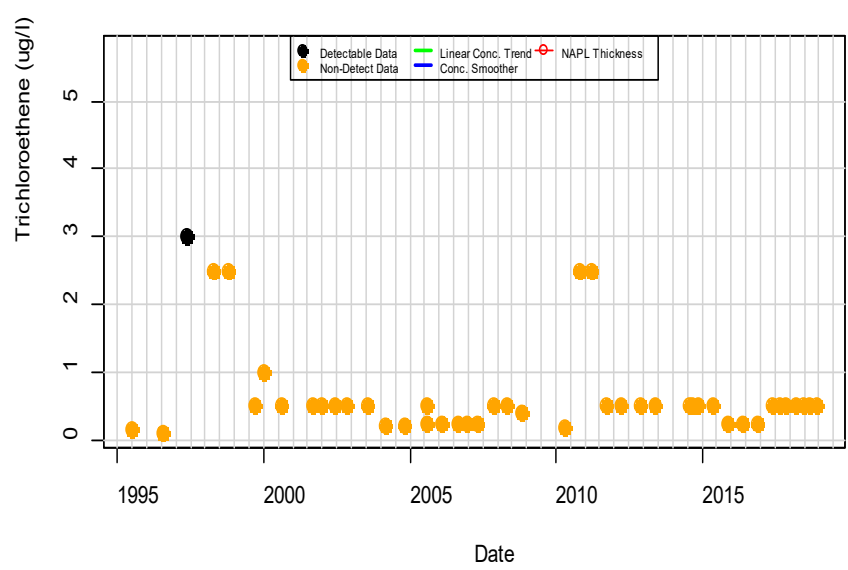
Trichloroethene in PZ-12 : Aquifer-D



Trichloroethene in PZ-12B : Aquifer-D

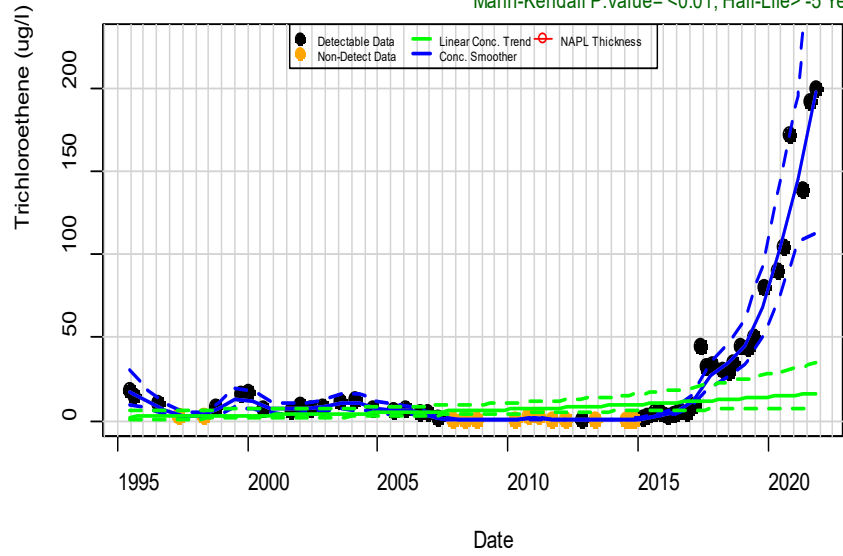


Trichloroethene in PZ-15 : Aquifer-D



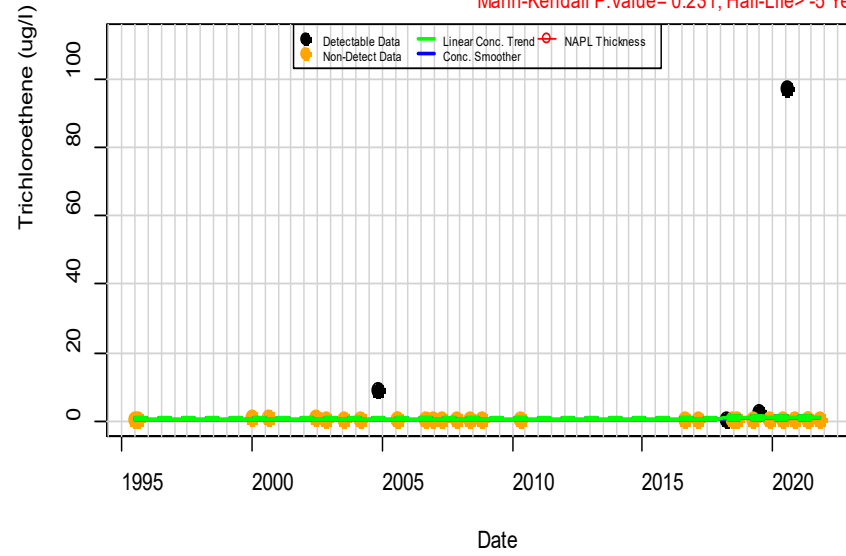
Trichloroethene in PZ-16 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life> -5 Years



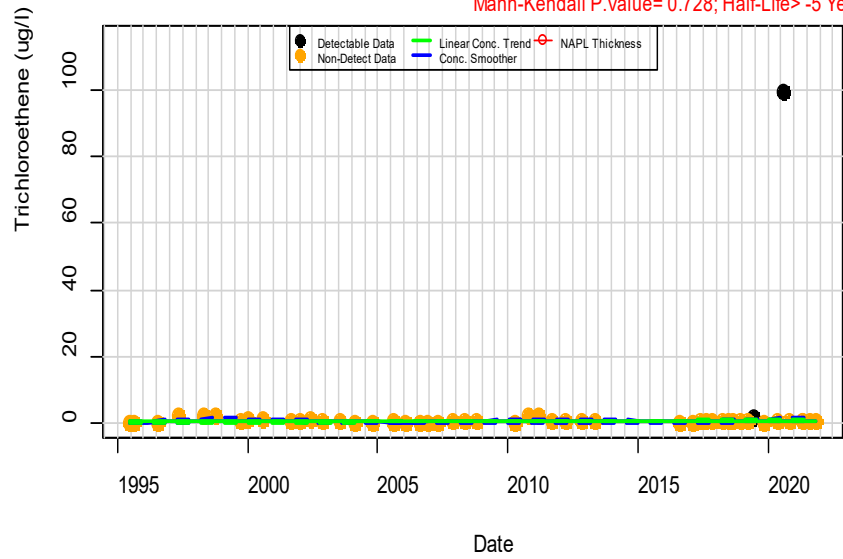
Trichloroethene in PZ-17 : Aquifer-D

Mann-Kendall P.Value= 0.231; Half-Life> -5 Years



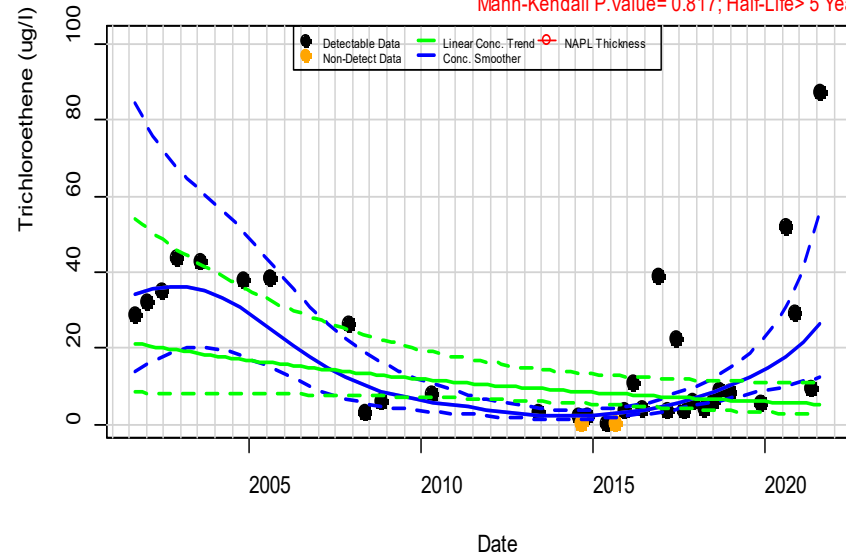
Trichloroethene in PZ-18 : Aquifer-D

Mann-Kendall P.Value= 0.728; Half-Life> -5 Years

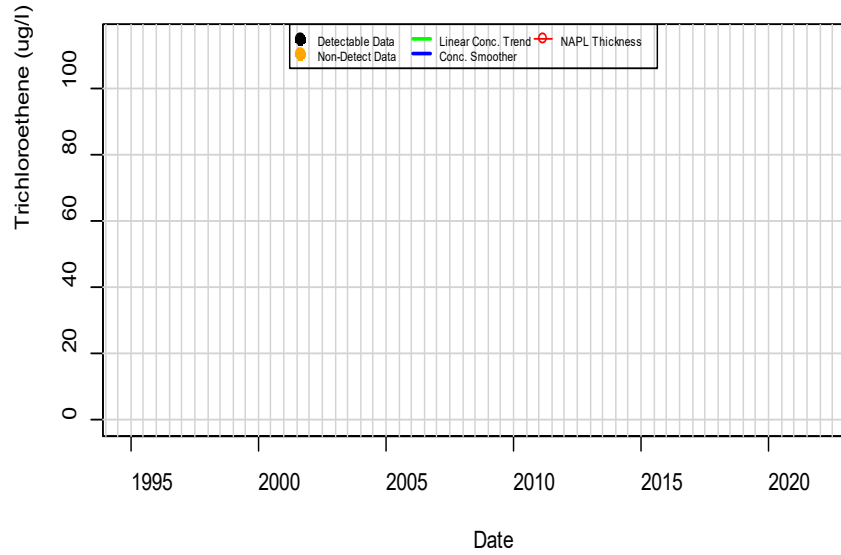


Trichloroethene in PZ-9 : Aquifer-D

Mann-Kendall P.Value= 0.817; Half-Life> 5 Years

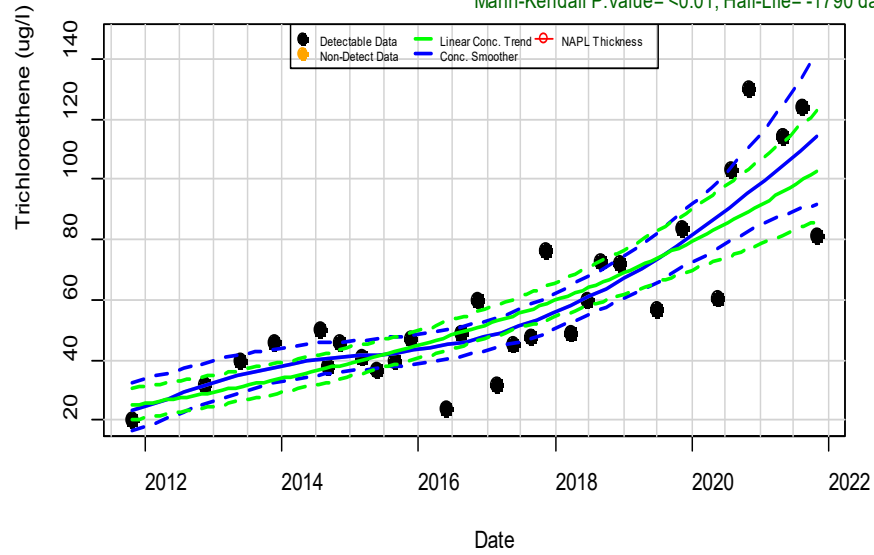


Trichloroethene in RX-24 : Aquifer-D



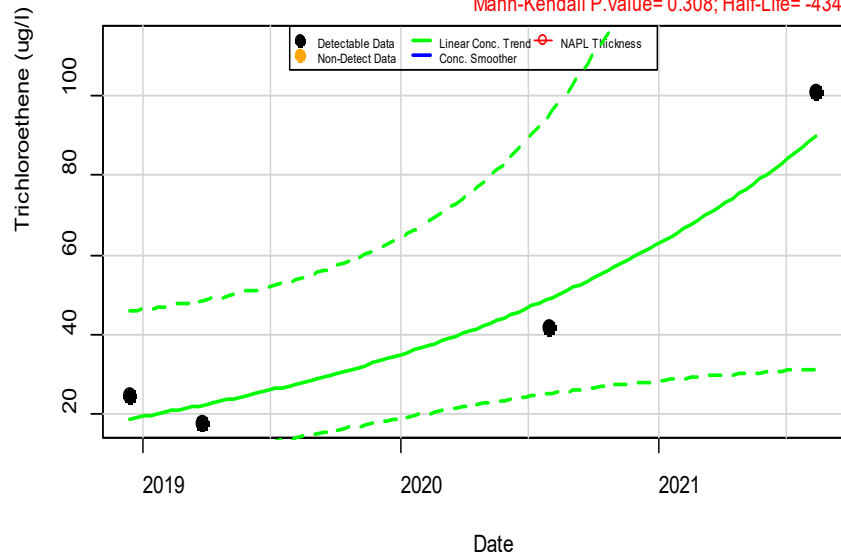
Trichloroethene in RX-28 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life= -1790 days



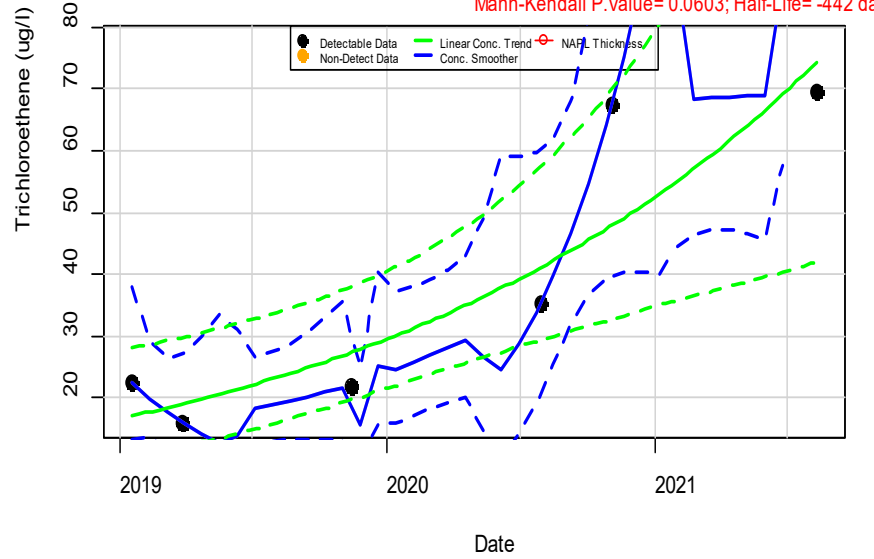
Trichloroethene in TWP-20 : Aquifer-D

Mann-Kendall P.Value= 0.308; Half-Life= -434 days



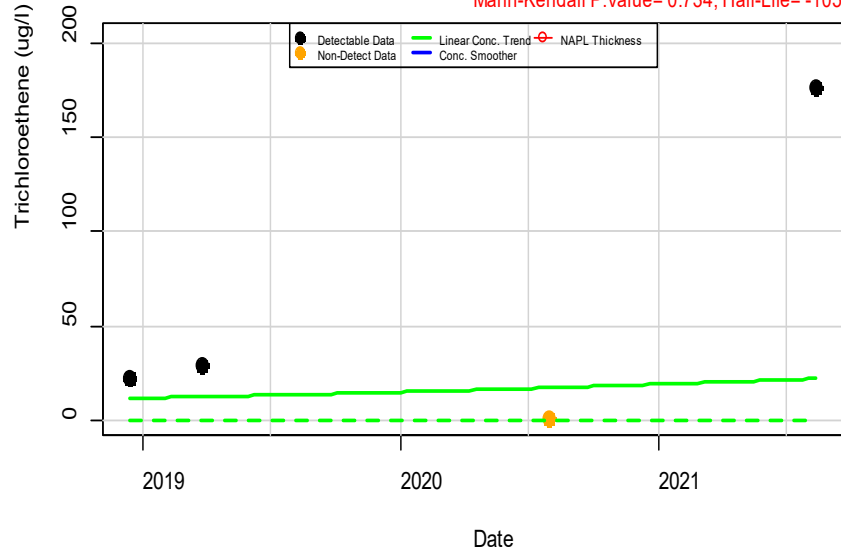
Trichloroethene in TWP-21 : Aquifer-D

Mann-Kendall P.Value= 0.0603; Half-Life= -442 days

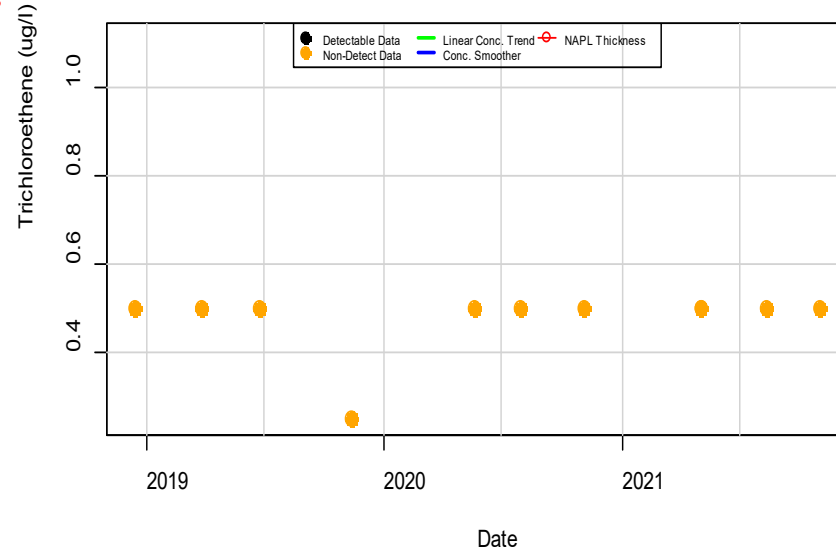


Trichloroethene in TWP-22 : Aquifer-D

Mann-Kendall P.Value= 0.734; Half-Life= -1050 days

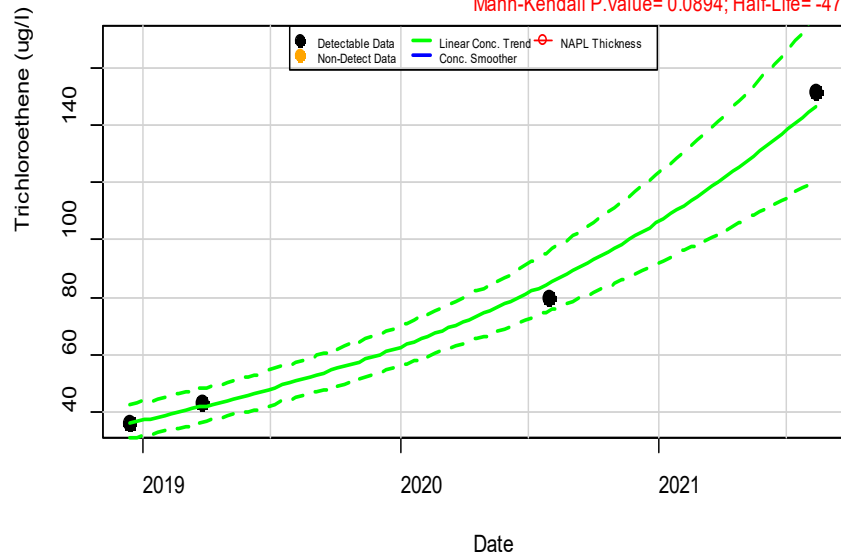


Trichloroethene in TWP-23 : Aquifer-D



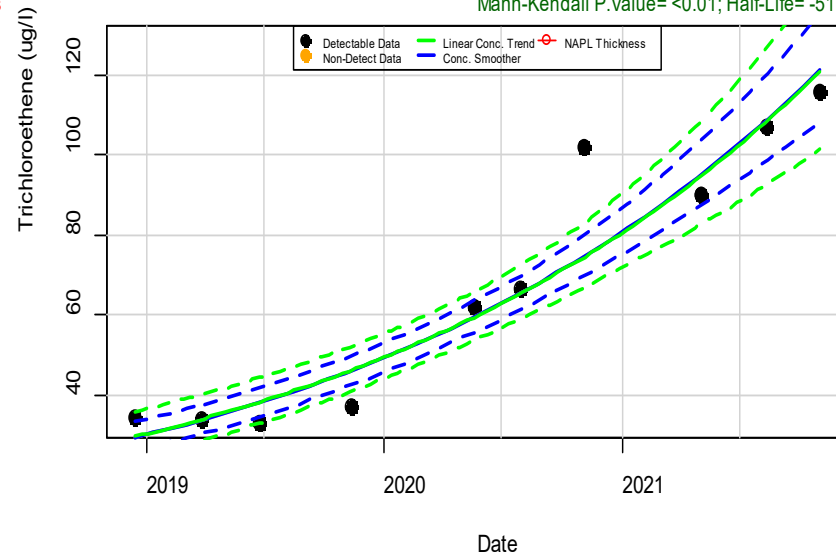
Trichloroethene in TWP-24 : Aquifer-D

Mann-Kendall P.Value= 0.0894; Half-Life= -478 days



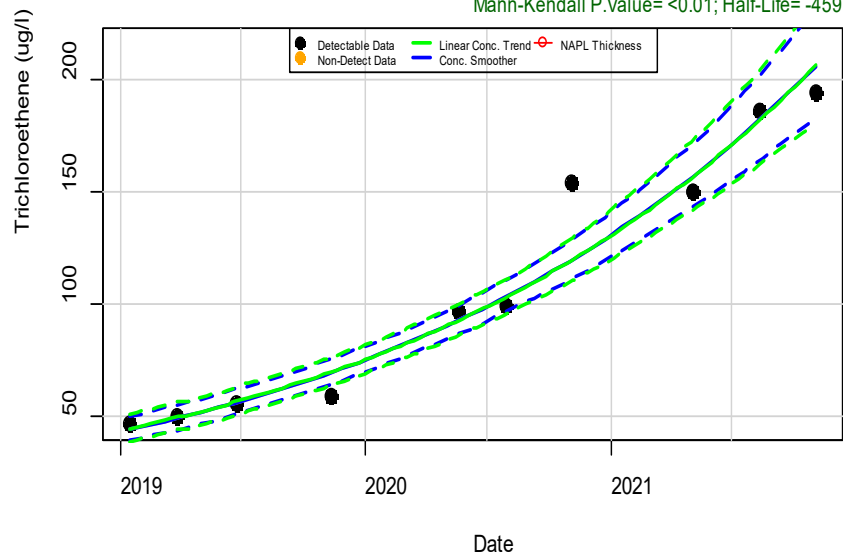
Trichloroethene in TWP-25 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life= -518 days



Trichloroethene in TWP-26 : Aquifer-D

Mann-Kendall P.Value= <0.01; Half-Life= -459 days

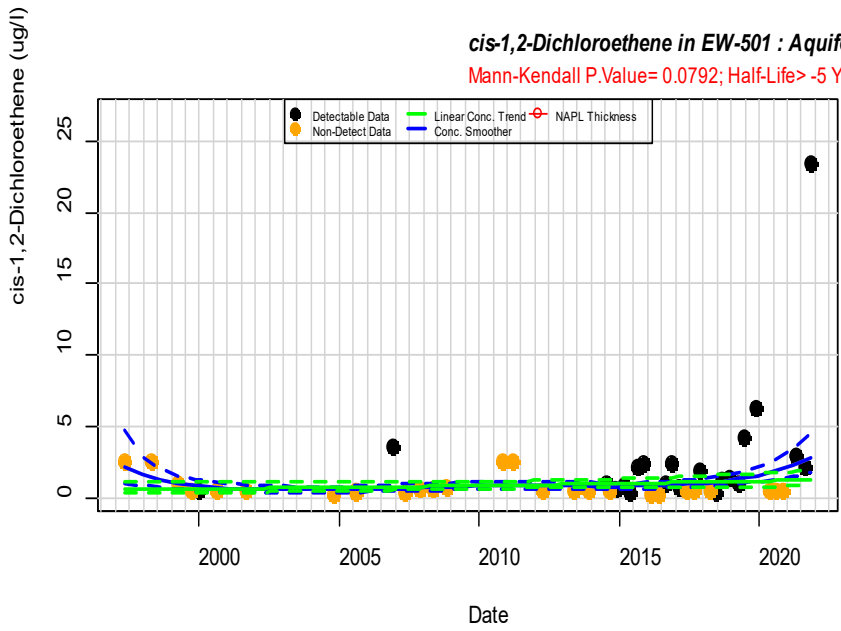


Cis-1,2-Dichloroethene

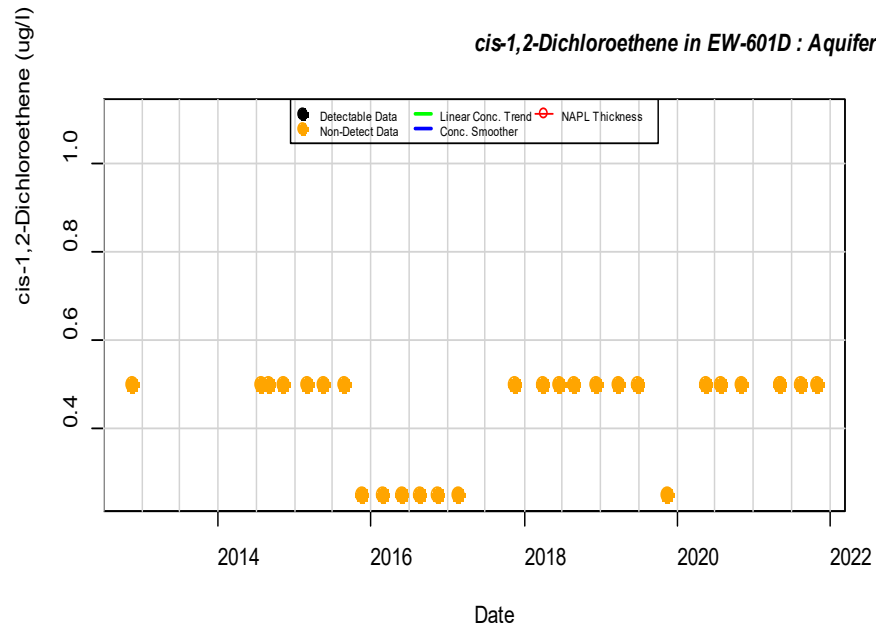
3,700 ug/L Threshold

cis-1,2-Dichloroethene in EW-501 : Aquifer-D

Mann-Kendall P.Value= 0.0792; Half-Life> -5 Years

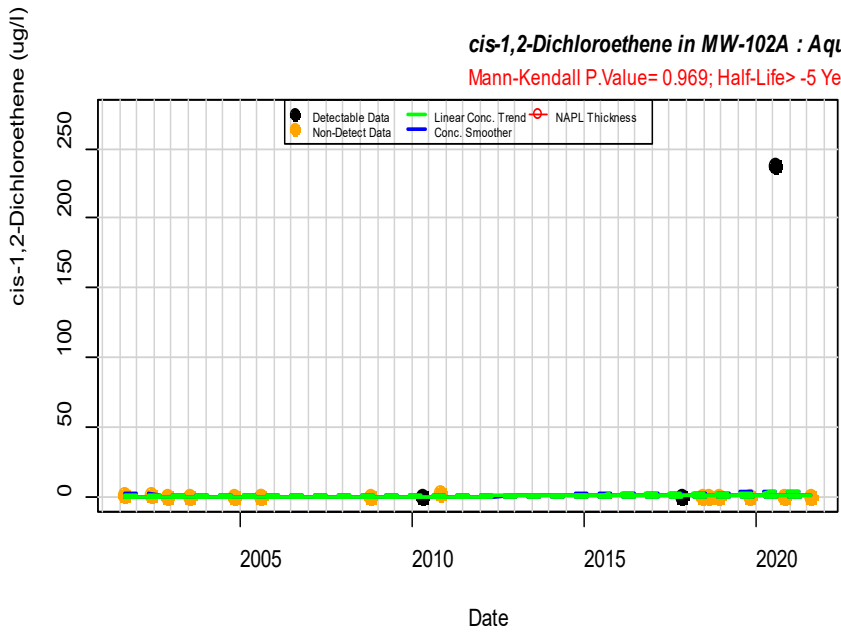


cis-1,2-Dichloroethene in EW-601D : Aquifer-D

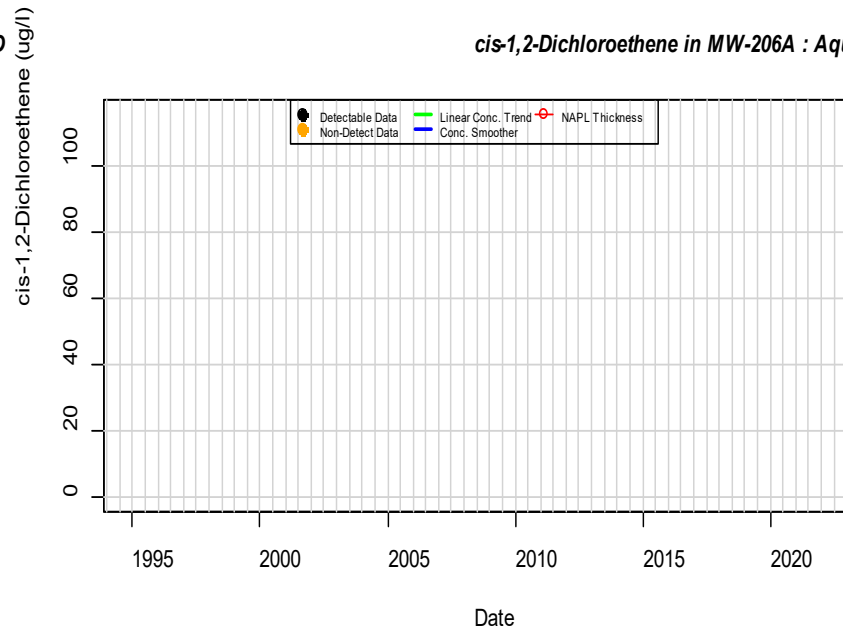


cis-1,2-Dichloroethene in MW-102A : Aquifer-D

Mann-Kendall P.Value= 0.969; Half-Life> -5 Years

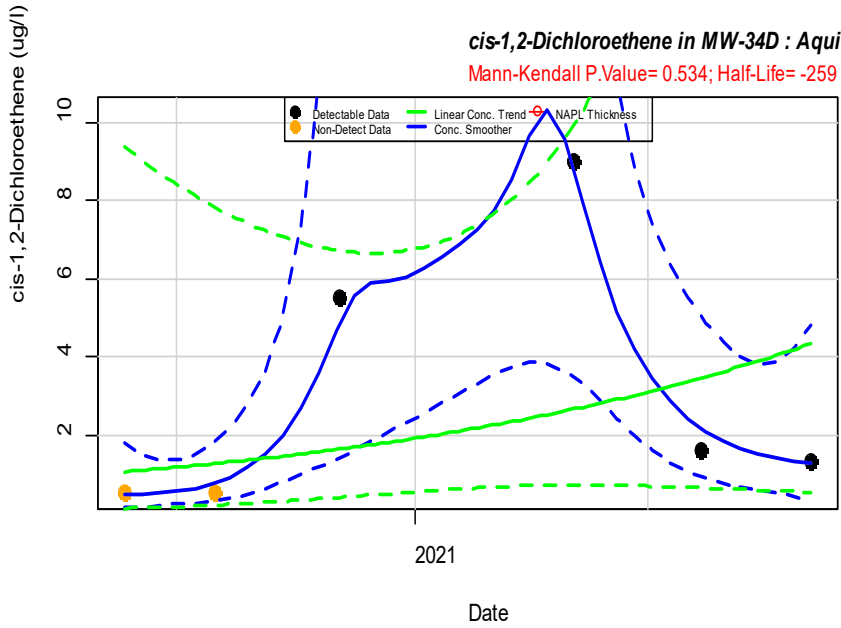


cis-1,2-Dichloroethene in MW-206A : Aquifer-D



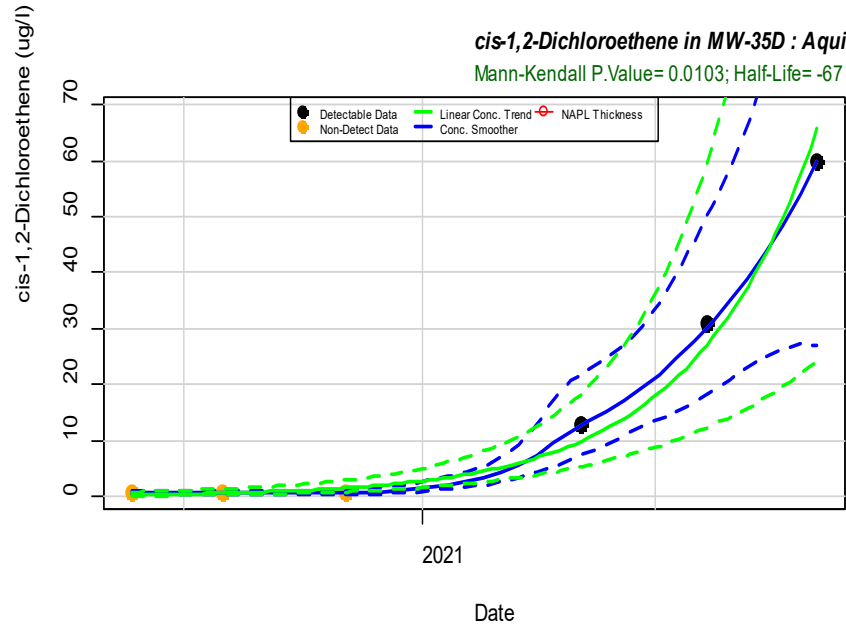
cis-1,2-Dichloroethene in MW-34D : Aquifer-D

Mann-Kendall P.Value= 0.534; Half-Life= -259 days

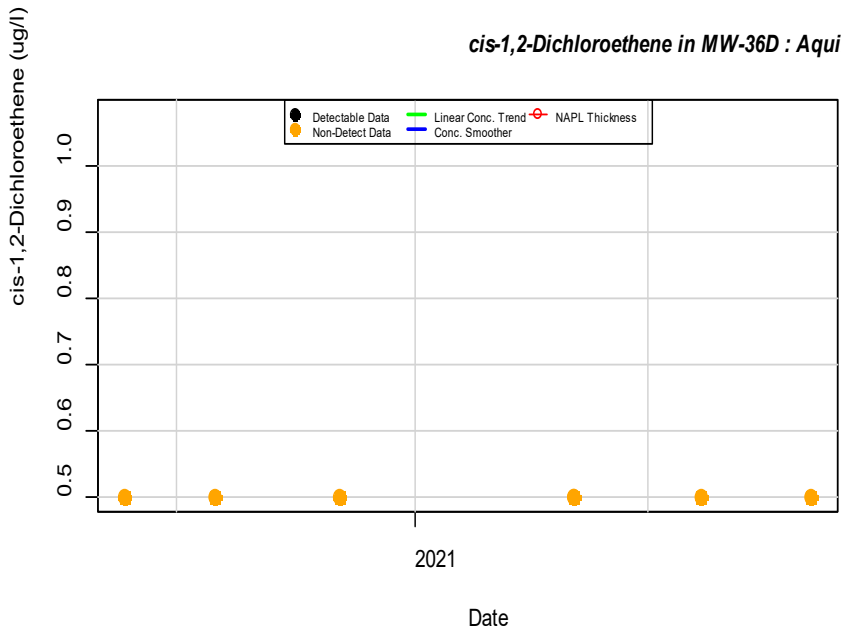


cis-1,2-Dichloroethene in MW-35D : Aquifer-D

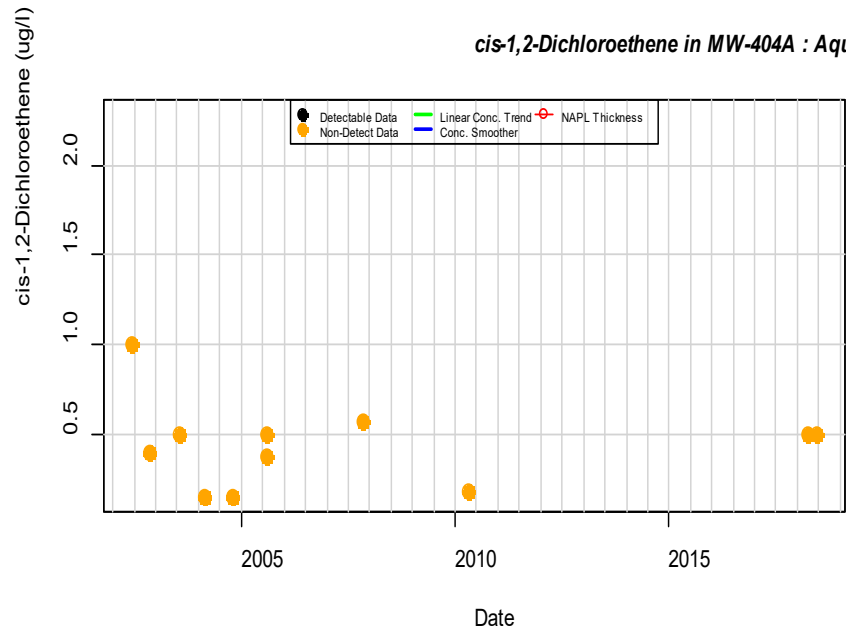
Mann-Kendall P.Value= 0.0103; Half-Life= -67 days



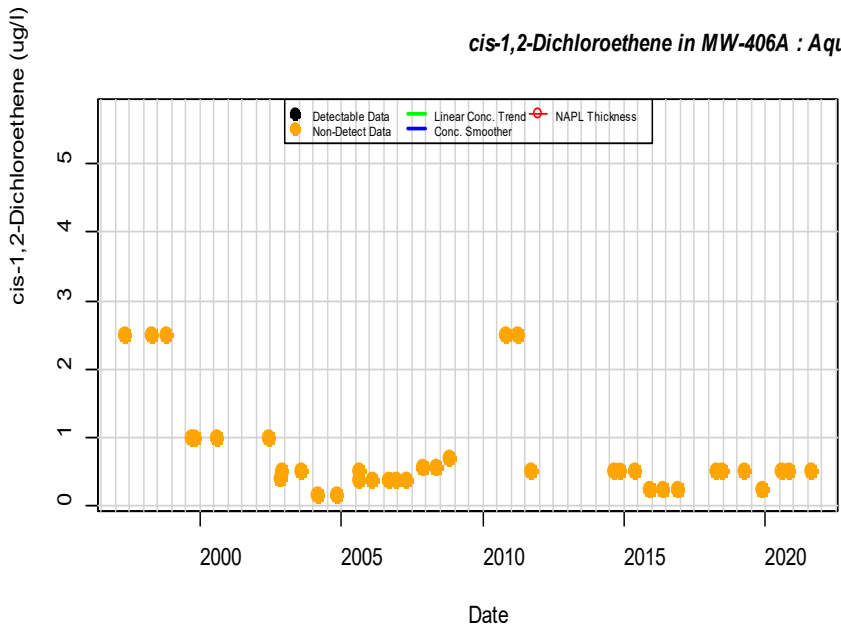
cis-1,2-Dichloroethene in MW-36D : Aquifer-D



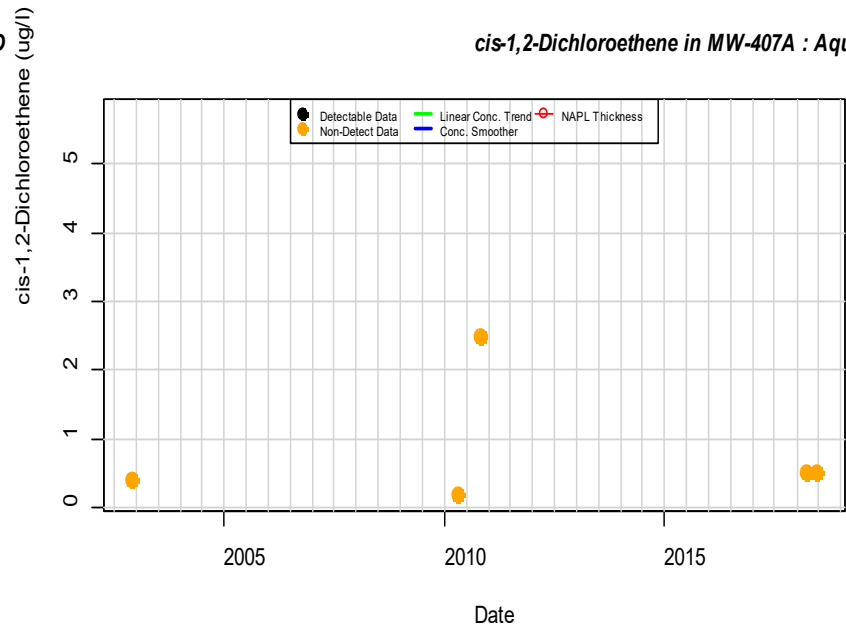
cis-1,2-Dichloroethene in MW-404A : Aquifer-D



cis-1,2-Dichloroethene in MW-406A : Aquifer-D

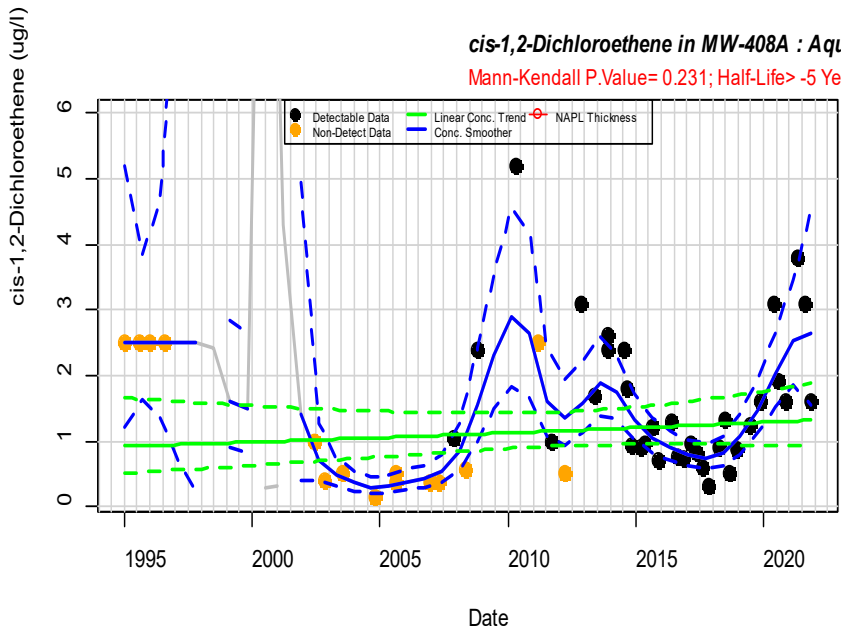


cis-1,2-Dichloroethene in MW-407A : Aquifer-D

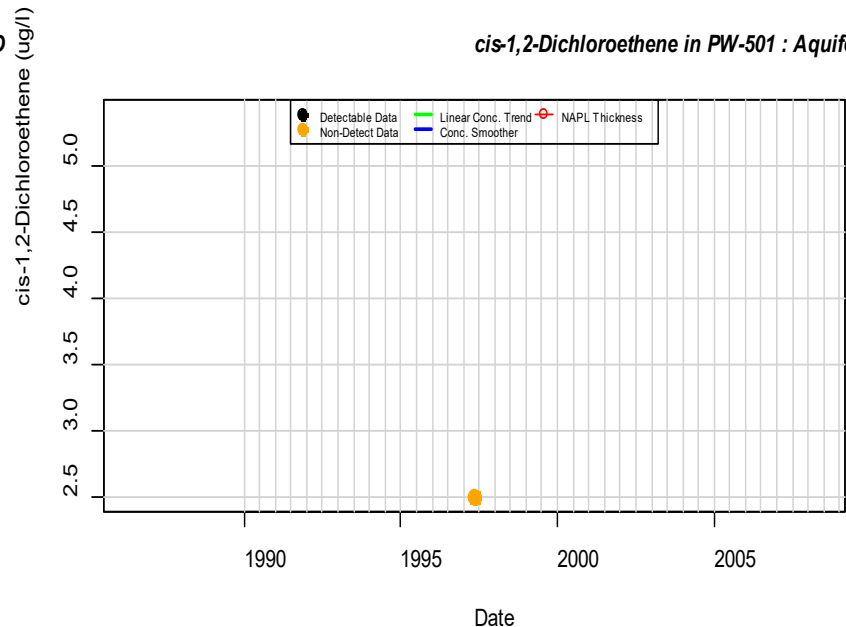


cis-1,2-Dichloroethene in MW-408A : Aquifer-D

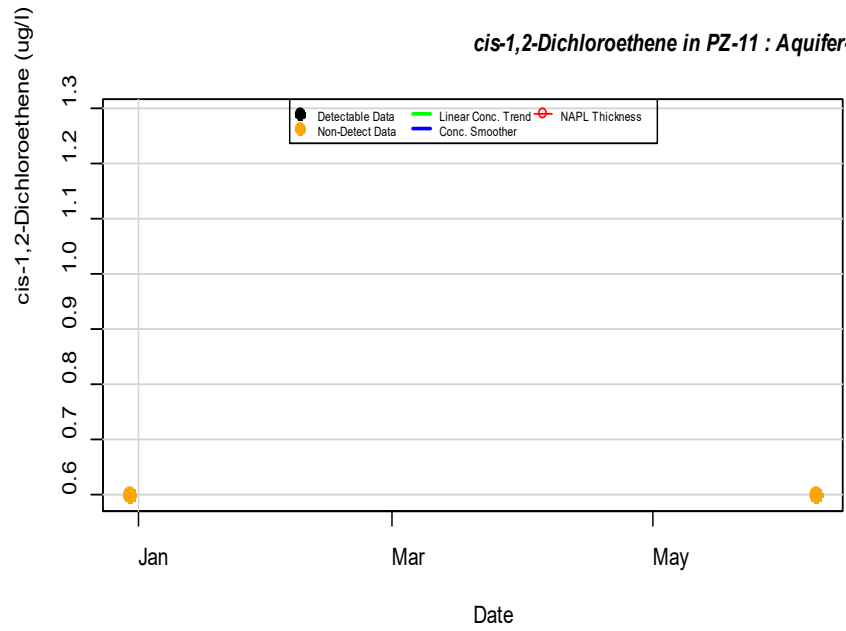
Mann-Kendall P.Value= 0.231; Half-Life> -5 Years



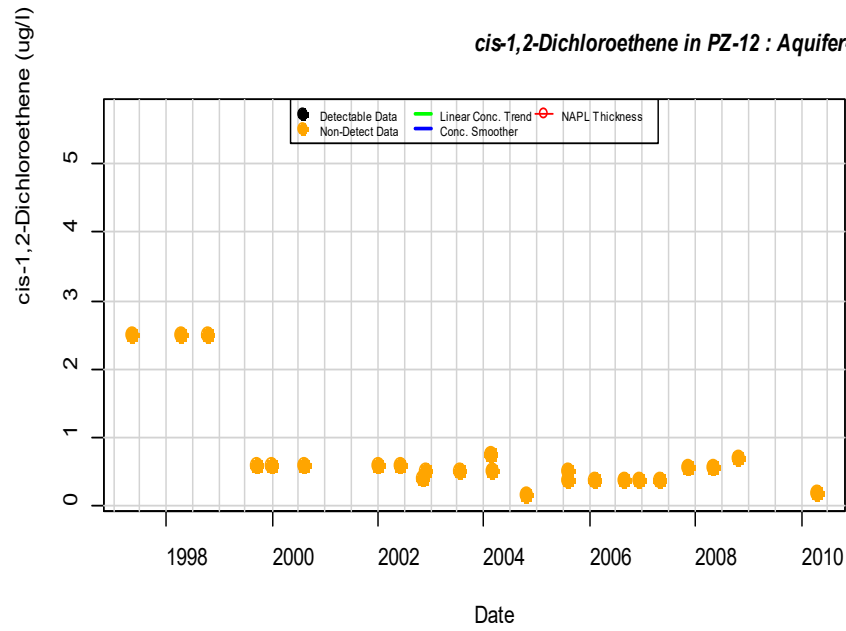
cis-1,2-Dichloroethene in PW-501 : Aquifer-D



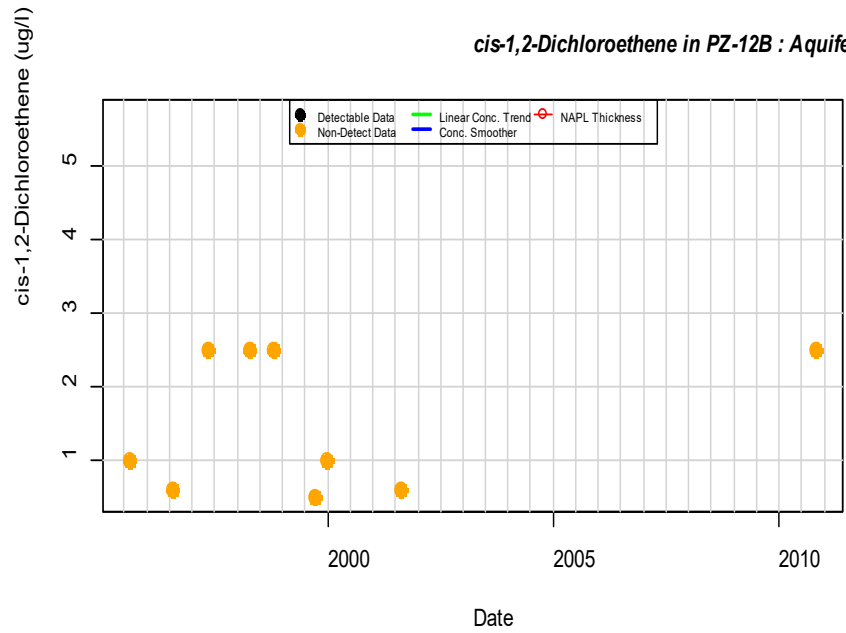
cis-1,2-Dichloroethene in PZ-11 : Aquifer-D



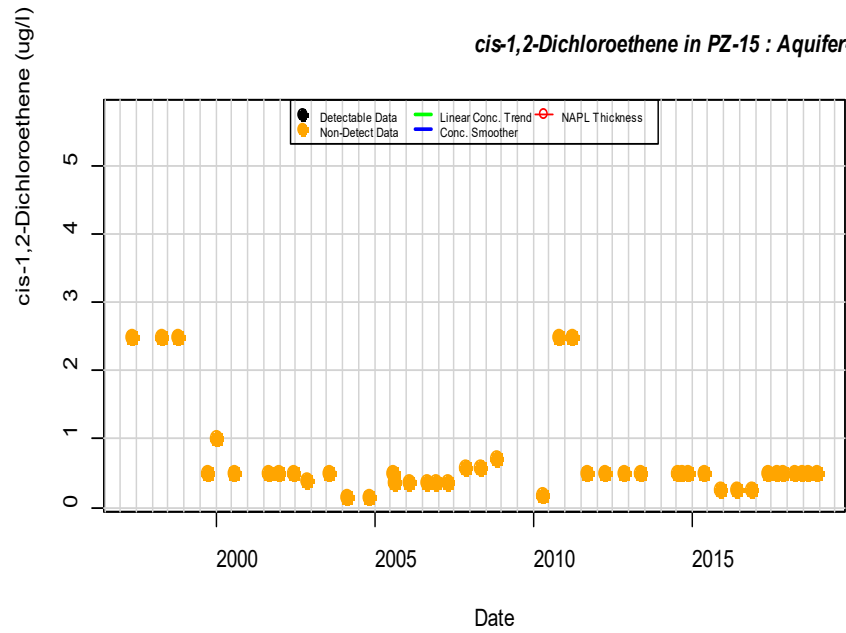
cis-1,2-Dichloroethene in PZ-12 : Aquifer-D



cis-1,2-Dichloroethene in PZ-12B : Aquifer-D

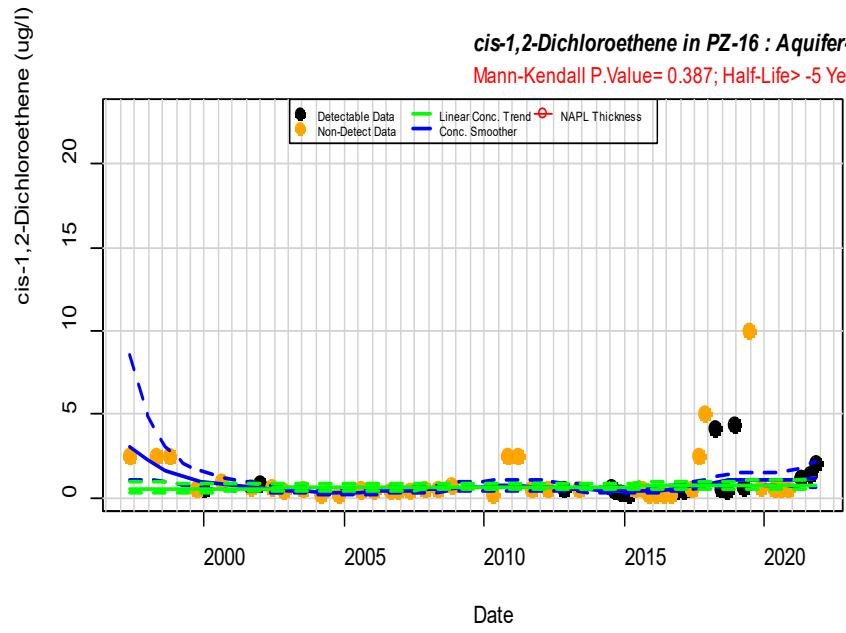


cis-1,2-Dichloroethene in PZ-15 : Aquifer-D

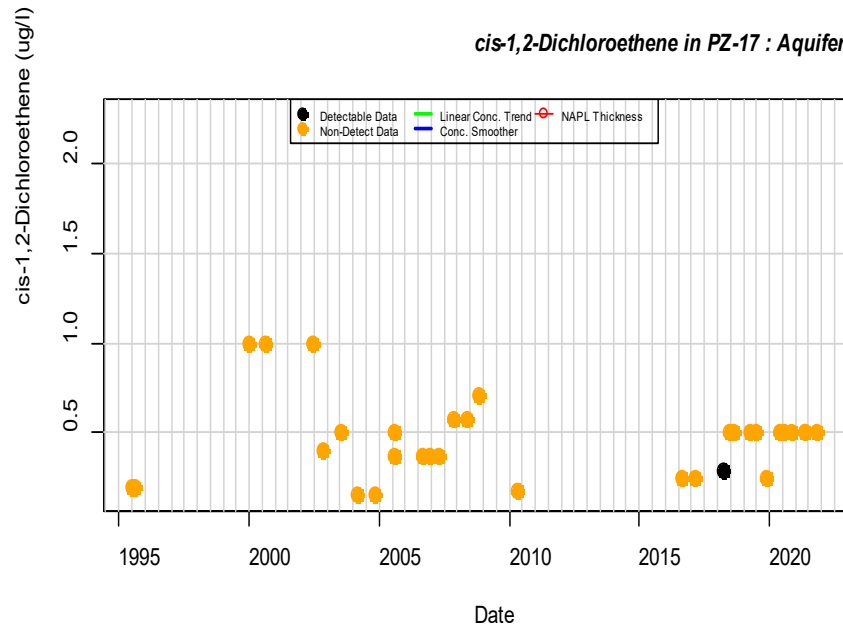


cis-1,2-Dichloroethene in PZ-16 : Aquifer-D

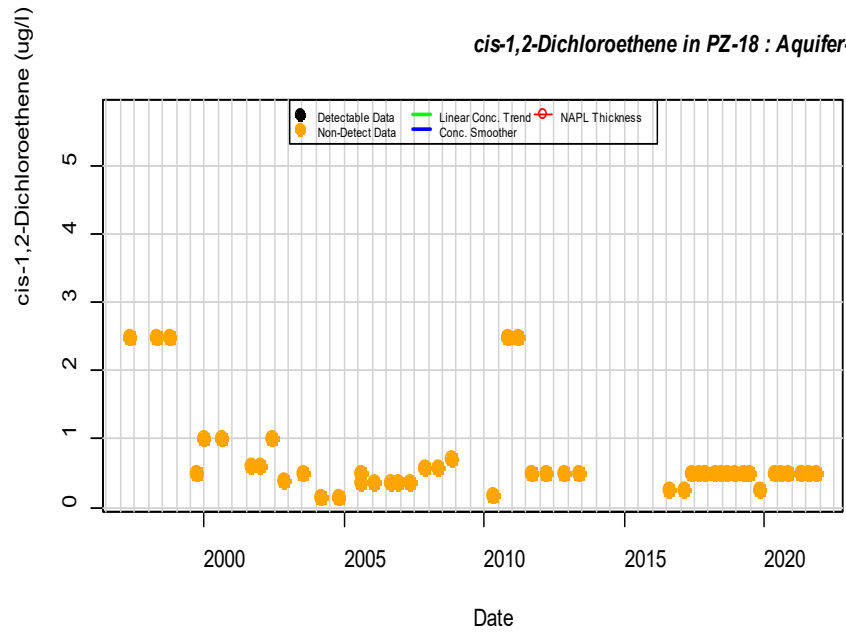
Mann-Kendall P.Value= 0.387; Half-Life> -5 Years



cis-1,2-Dichloroethene in PZ-17 : Aquifer-D

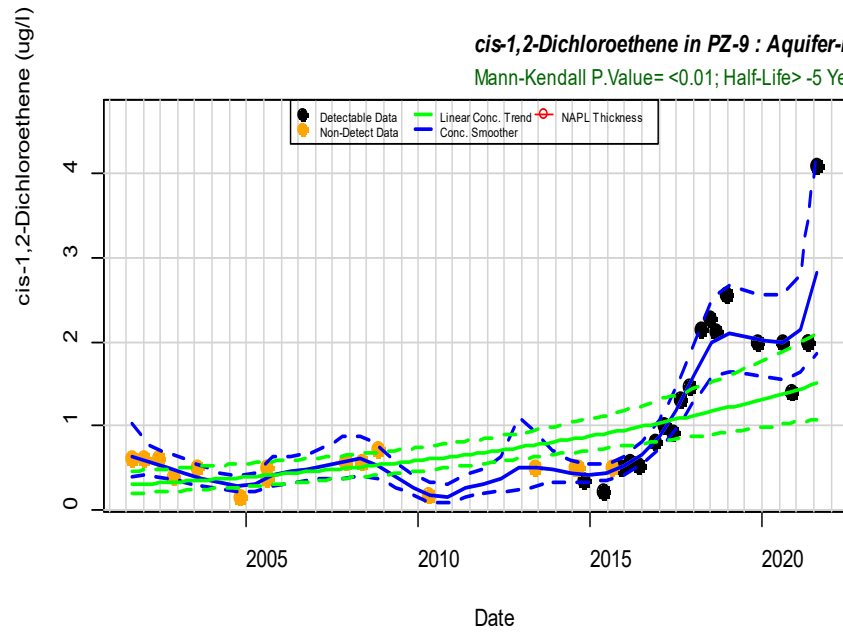


cis-1,2-Dichloroethene in PZ-18 : Aquifer-D

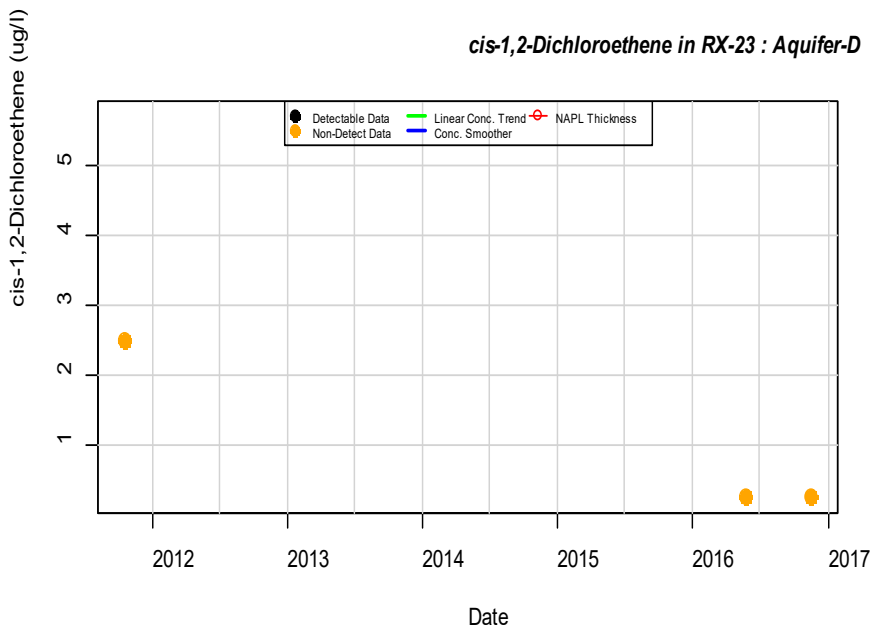


cis-1,2-Dichloroethene in PZ-9 : Aquifer-D

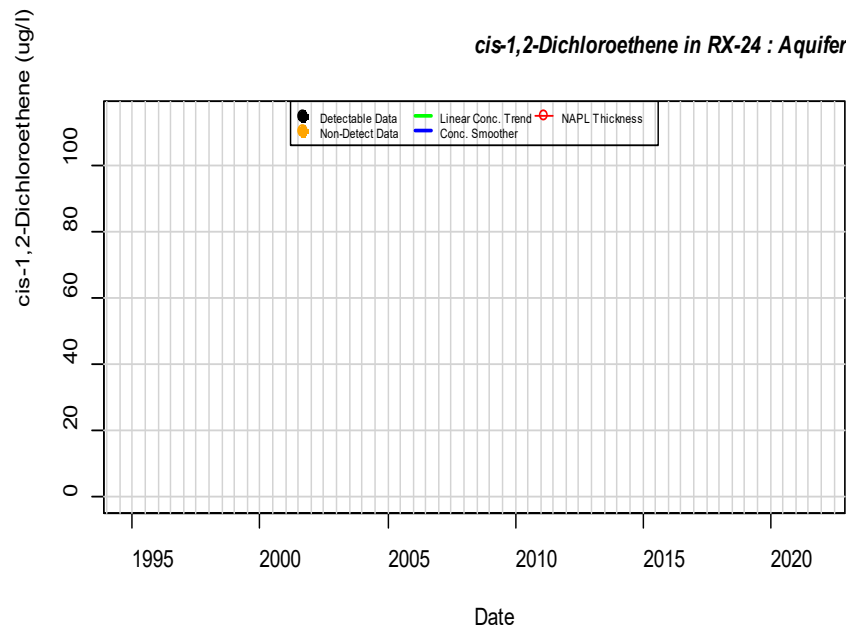
Mann-Kendall P.Value= <0.01; Half-Life> -5 Years



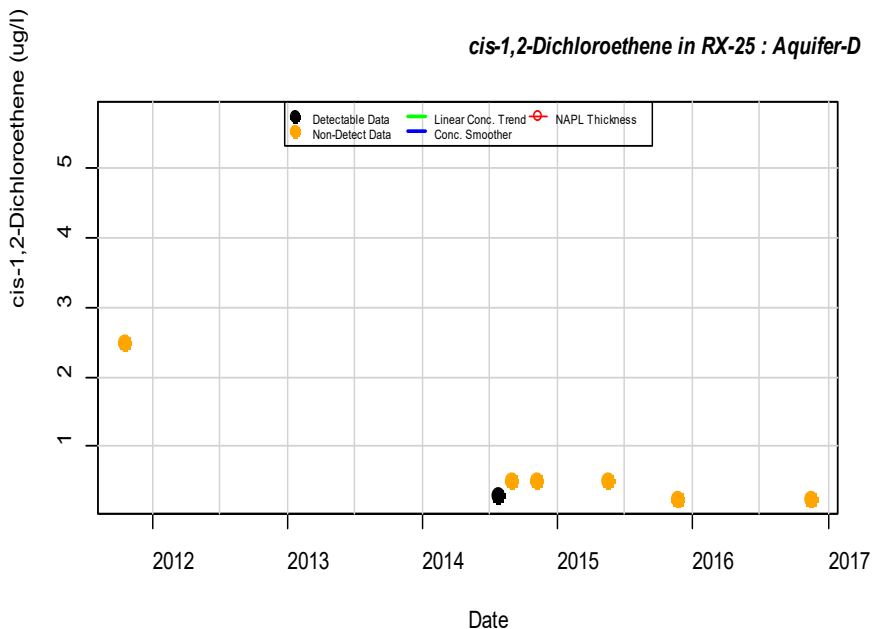
cis-1,2-Dichloroethene in RX-23 : Aquifer-D



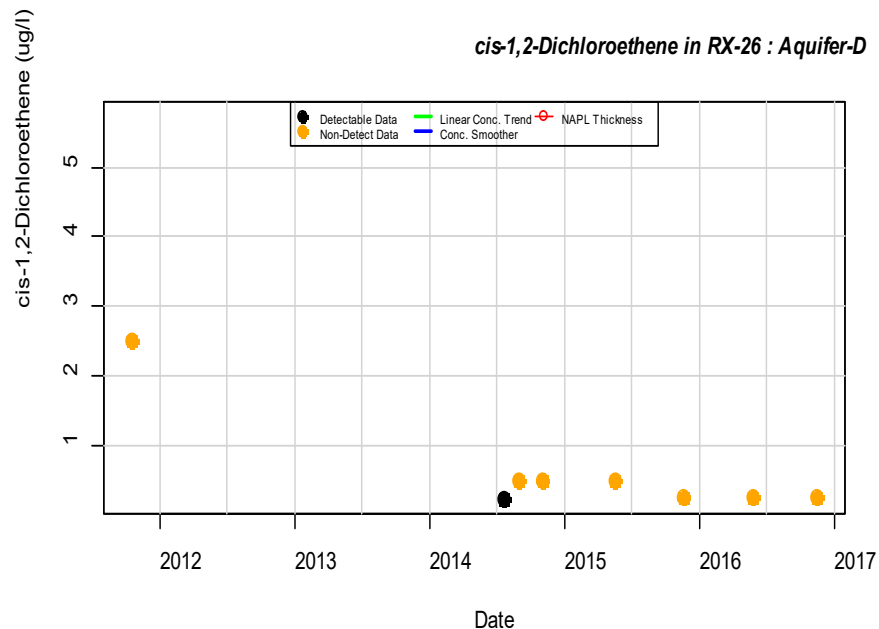
cis-1,2-Dichloroethene in RX-24 : Aquifer-D



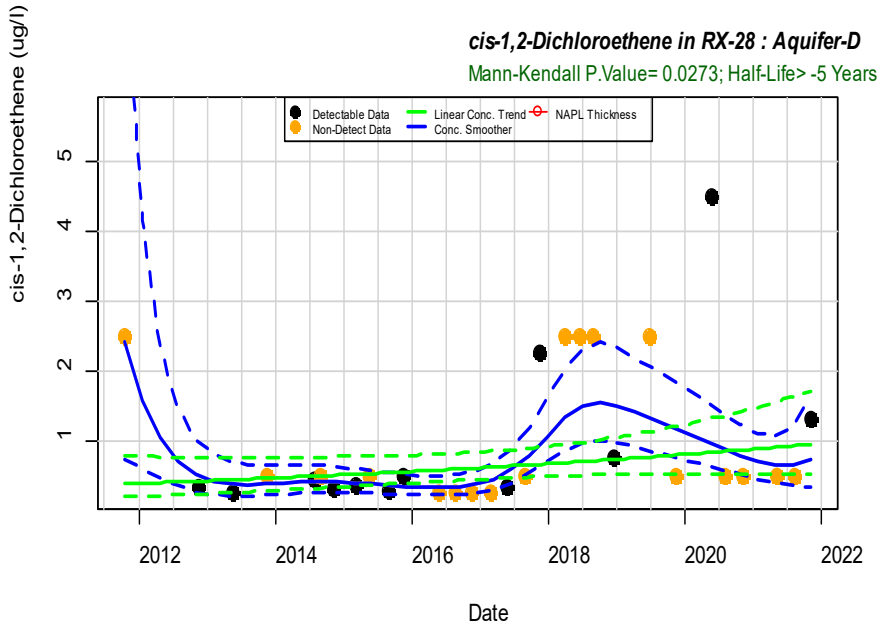
cis-1,2-Dichloroethene in RX-25 : Aquifer-D



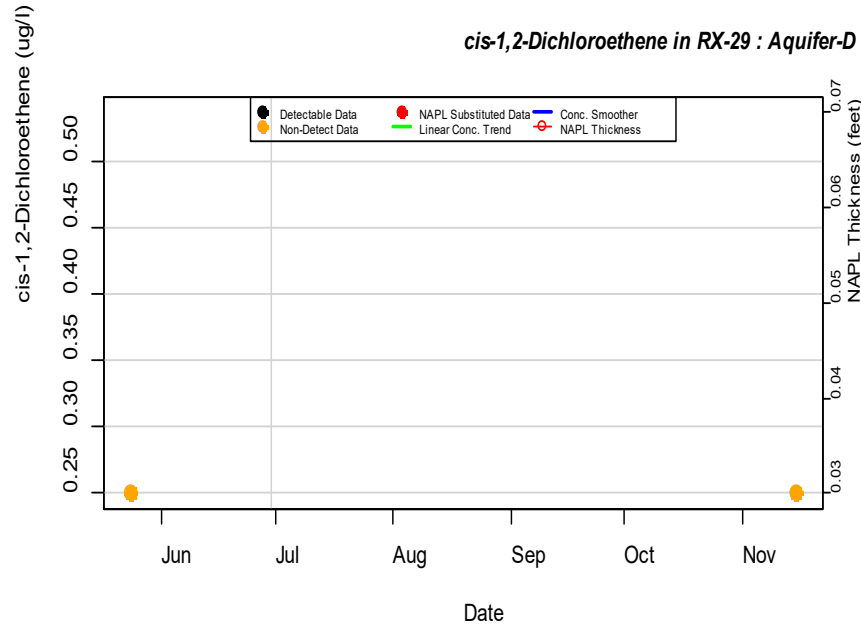
cis-1,2-Dichloroethene in RX-26 : Aquifer-D



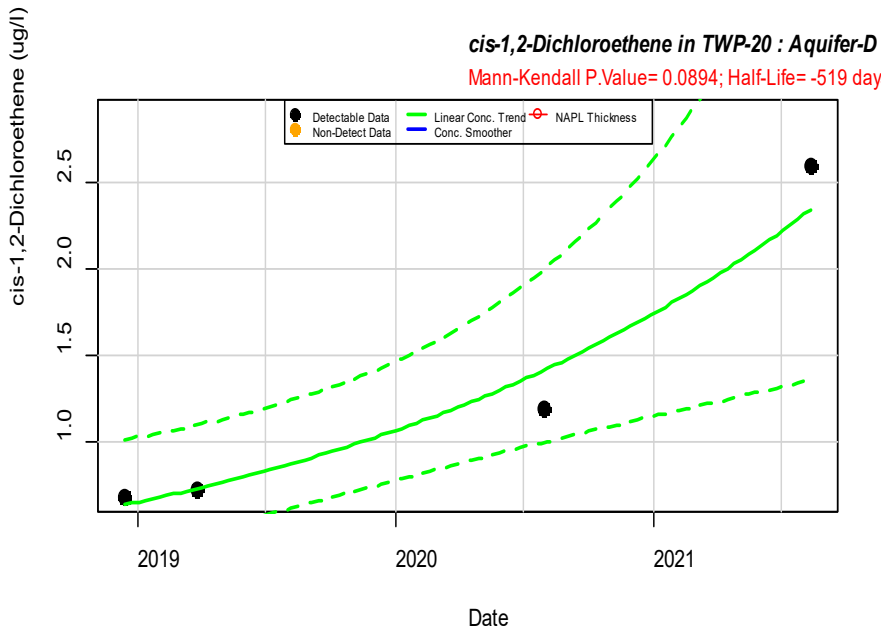
cis-1,2-Dichloroethene in RX-28 : Aquifer-D
Mann-Kendall P.Value= 0.0273; Half-Life> -5 Years



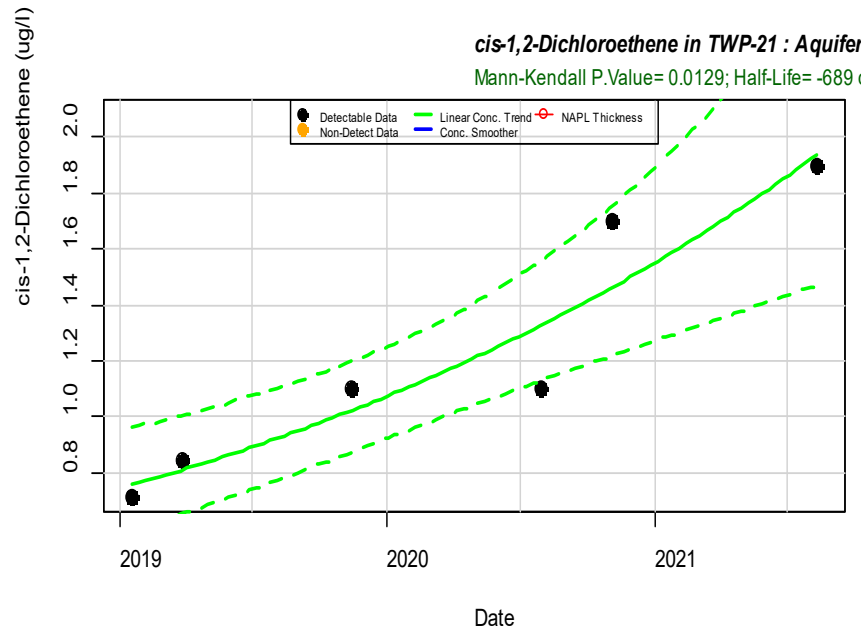
cis-1,2-Dichloroethene in RX-29 : Aquifer-D



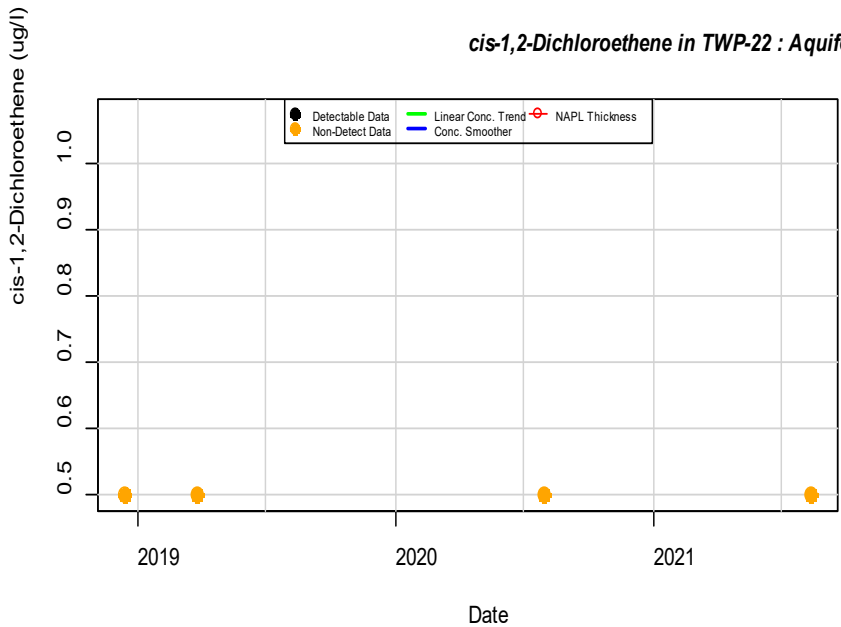
cis-1,2-Dichloroethene in TWP-20 : Aquifer-D
Mann-Kendall P.Value= 0.0894; Half-Life= -519 days



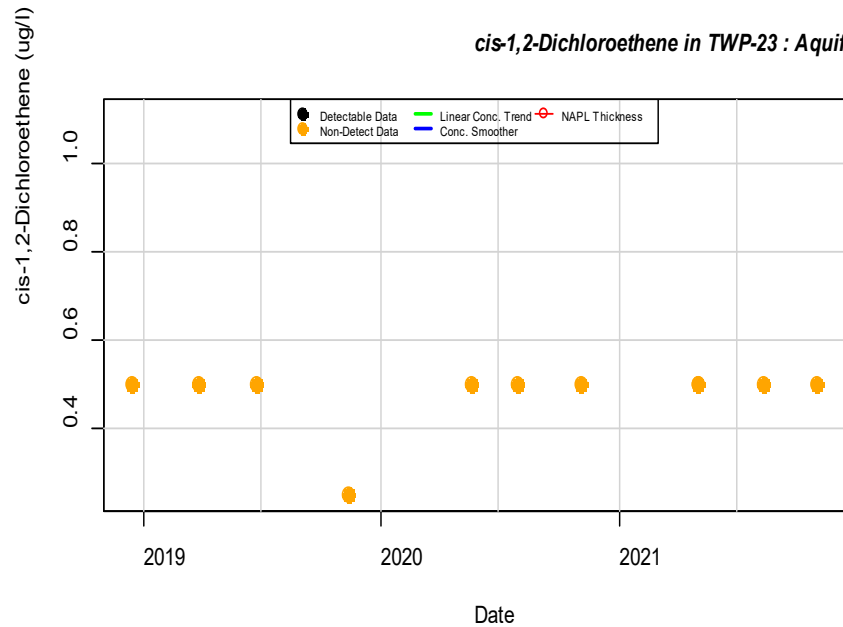
cis-1,2-Dichloroethene in TWP-21 : Aquifer-D
Mann-Kendall P.Value= 0.0129; Half-Life= -689 days



cis-1,2-Dichloroethene in TWP-22 : Aquifer-D

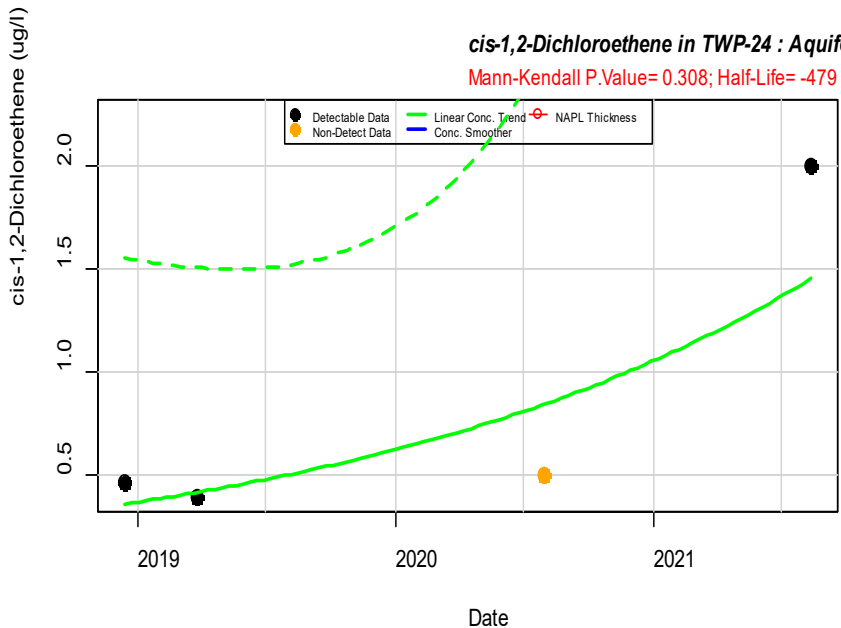


cis-1,2-Dichloroethene in TWP-23 : Aquifer-D



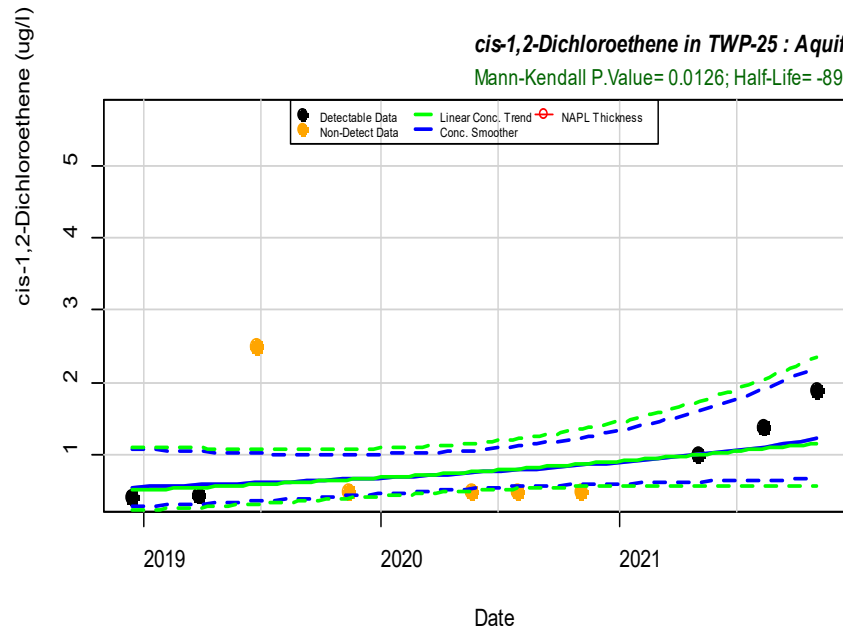
cis-1,2-Dichloroethene in TWP-24 : Aquifer-D

Mann-Kendall P.Value= 0.308; Half-Life= -479 days



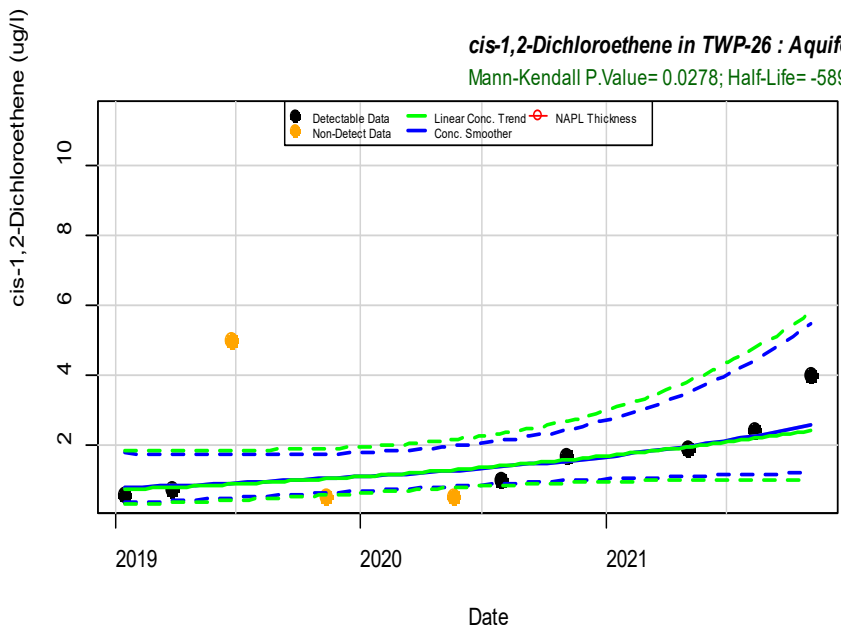
cis-1,2-Dichloroethene in TWP-25 : Aquifer-D

Mann-Kendall P.Value= 0.0126; Half-Life= -893 days



cis-1,2-Dichloroethene in TWP-26 : Aquifer-D

Mann-Kendall P.Value= 0.0278; Half-Life= -589 days

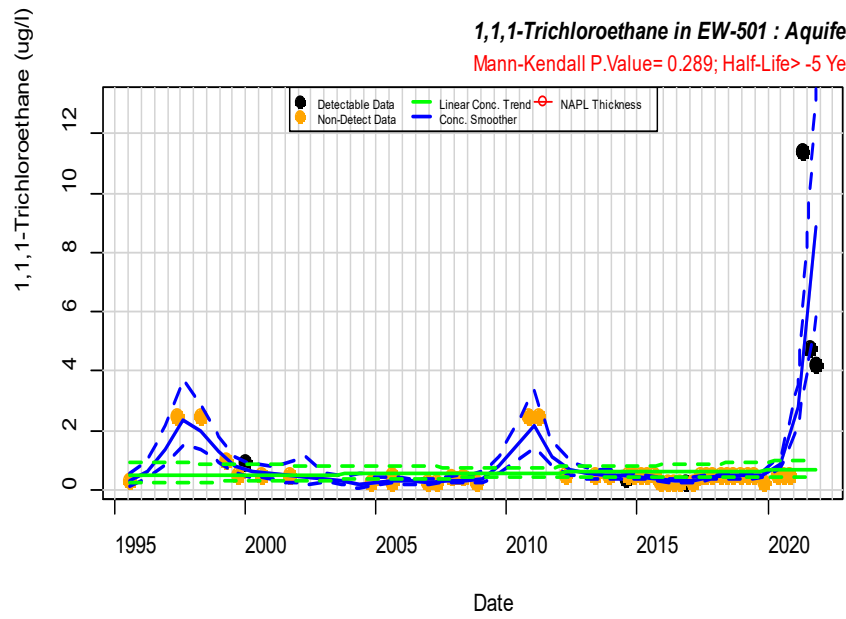


1,1,1-TCA

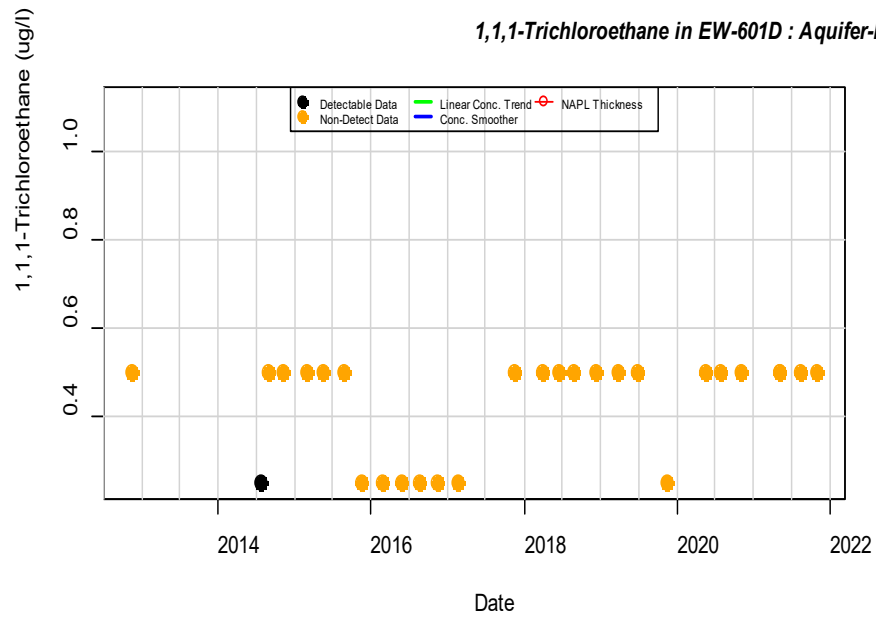
29,000 ug/L Threshold

1,1,1-Trichloroethane in EW-501 : Aquifer-D

Mann-Kendall P.Value= 0.289; Half-Life> -5 Years

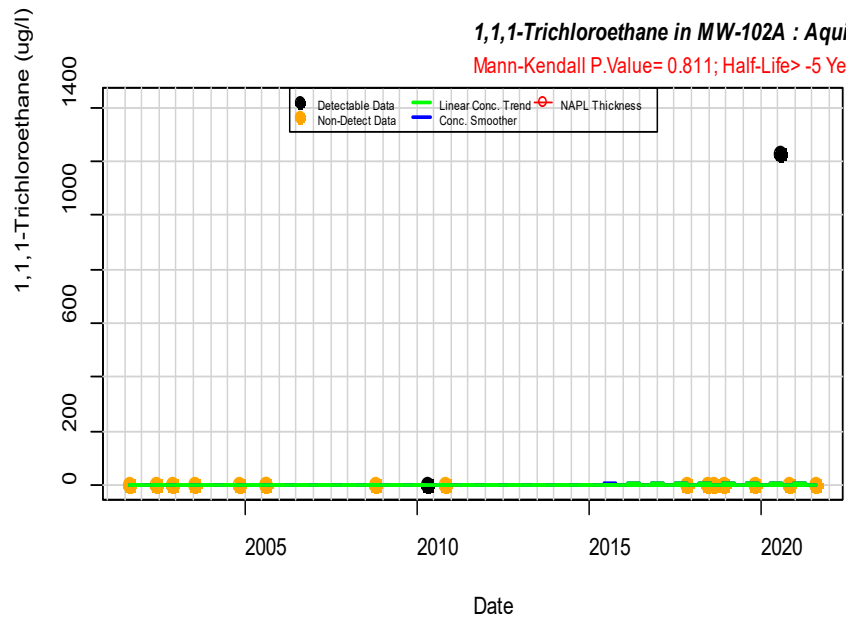


1,1,1-Trichloroethane in EW-601D : Aquifer-D

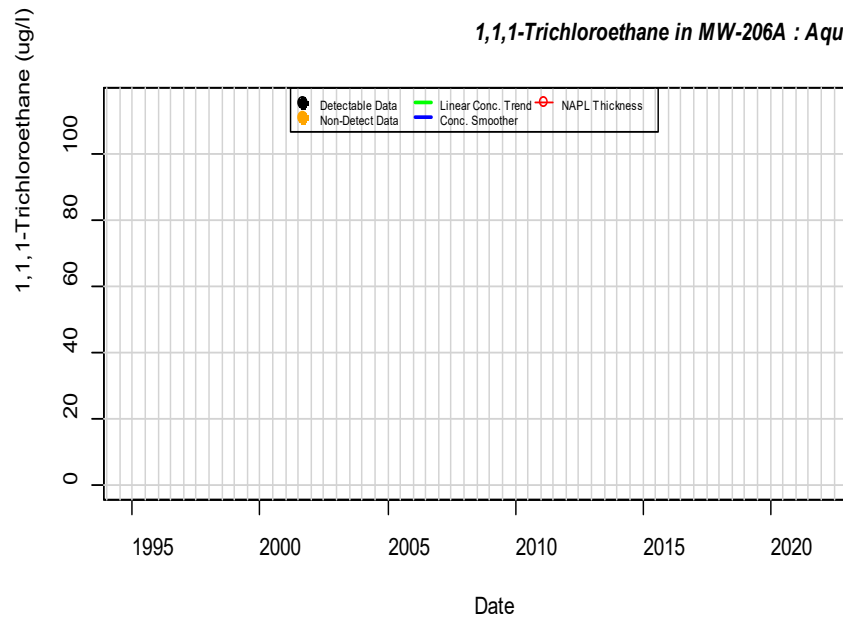


1,1,1-Trichloroethane in MW-102A : Aquifer-D

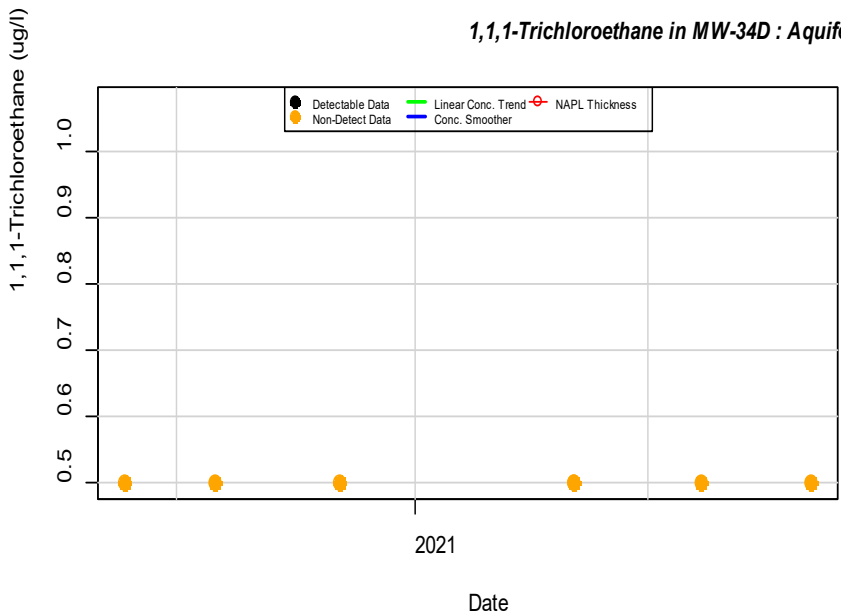
Mann-Kendall P.Value= 0.811; Half-Life> -5 Years



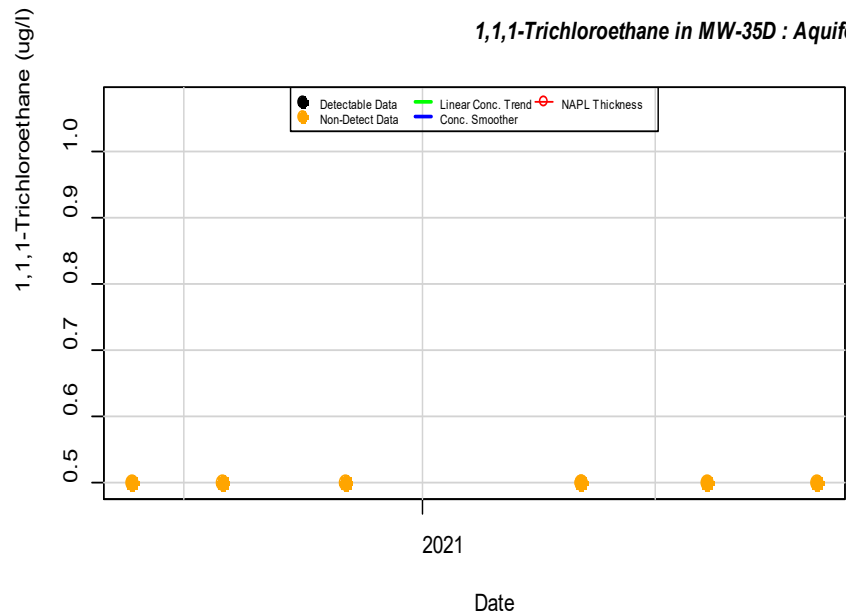
1,1,1-Trichloroethane in MW-206A : Aquifer-D



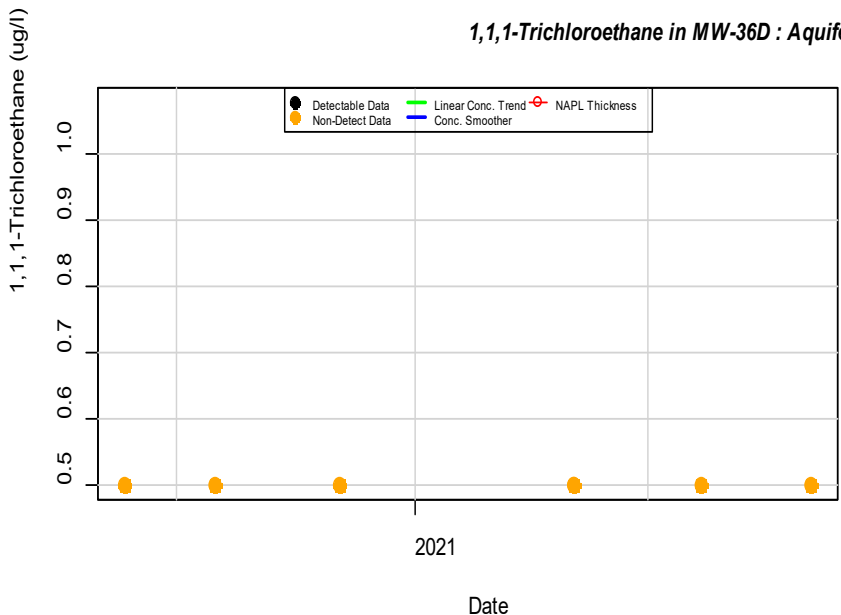
1,1,1-Trichloroethane in MW-34D : Aquifer-D



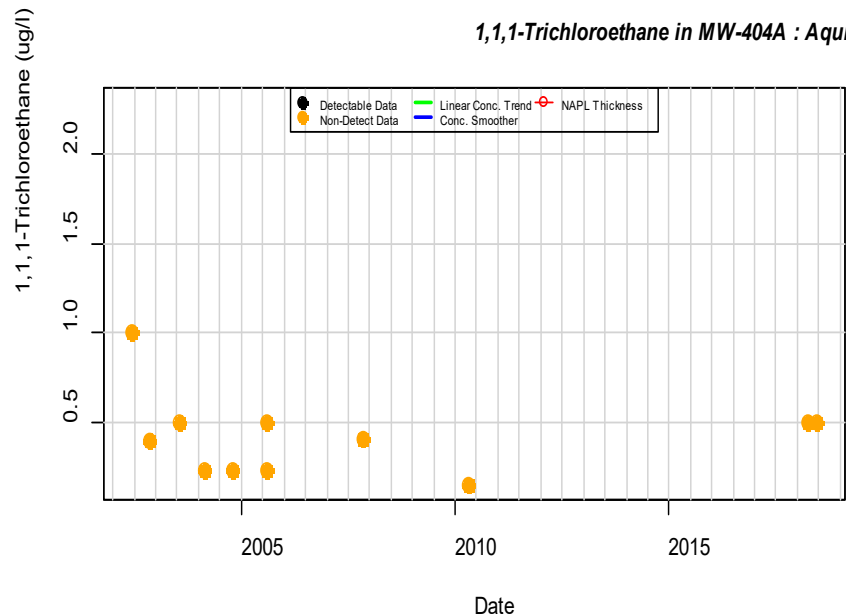
1,1,1-Trichloroethane in MW-35D : Aquifer-D



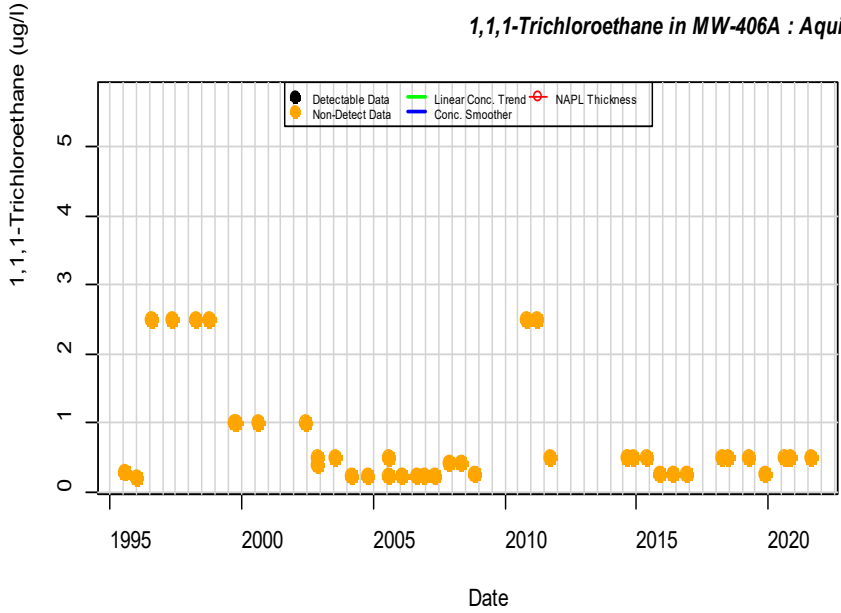
1,1,1-Trichloroethane in MW-36D : Aquifer-D



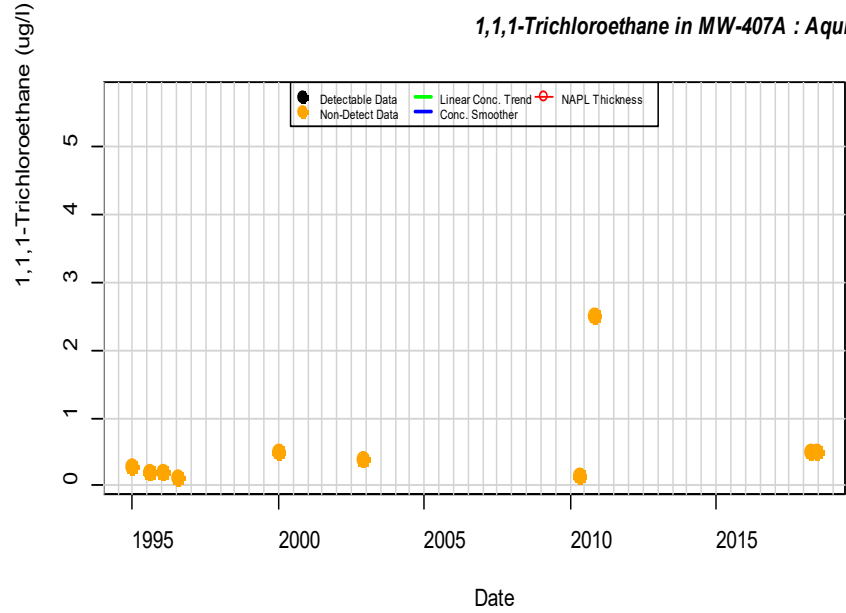
1,1,1-Trichloroethane in MW-404A : Aquifer-D



1,1,1-Trichloroethane in MW-406A : Aquifer-D

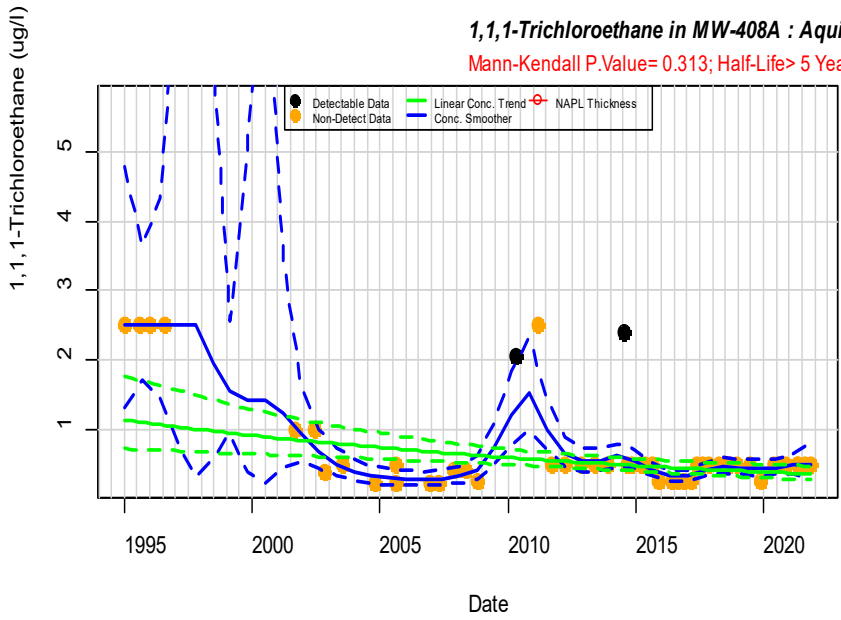


1,1,1-Trichloroethane in MW-407A : Aquifer-D

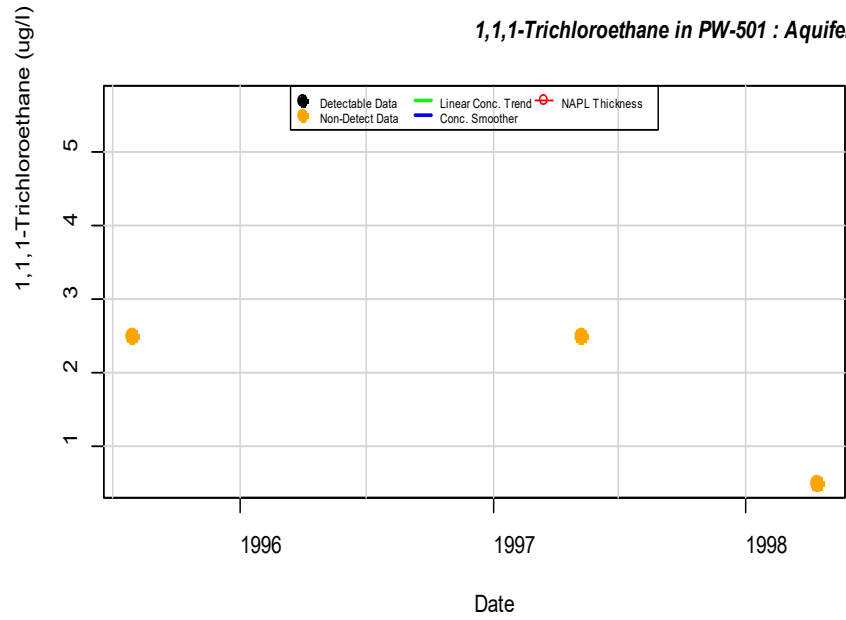


1,1,1-Trichloroethane in MW-408A : Aquifer-D

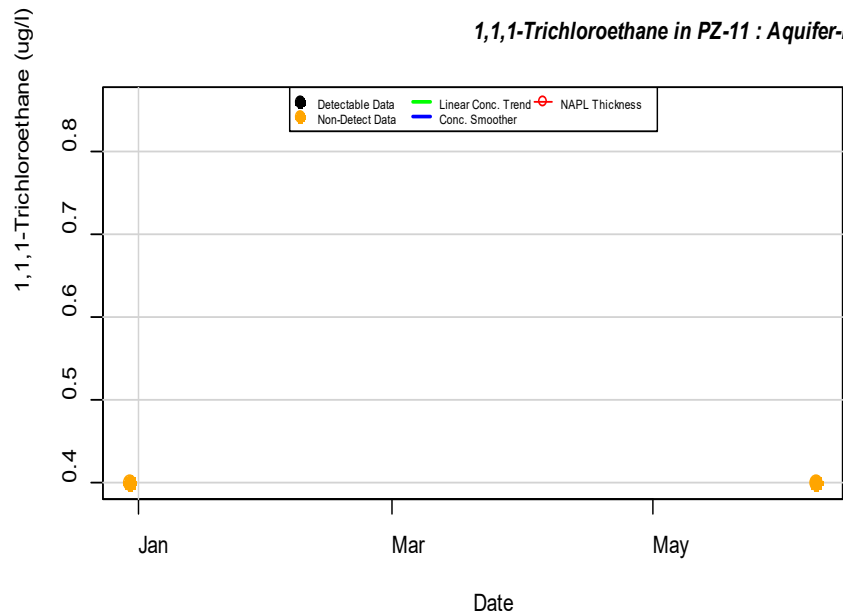
Mann-Kendall P.Value= 0.313; Half-Life> 5 Years



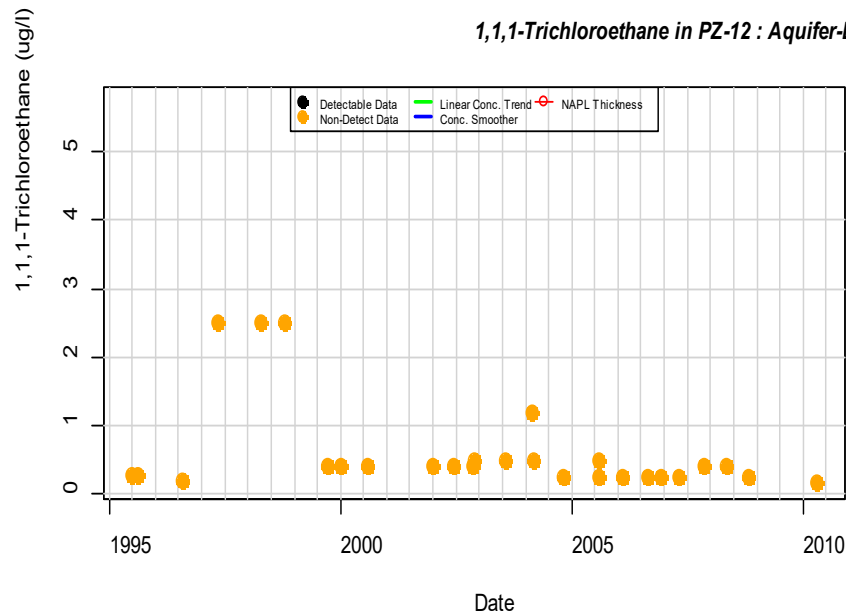
1,1,1-Trichloroethane in PW-501 : Aquifer-D



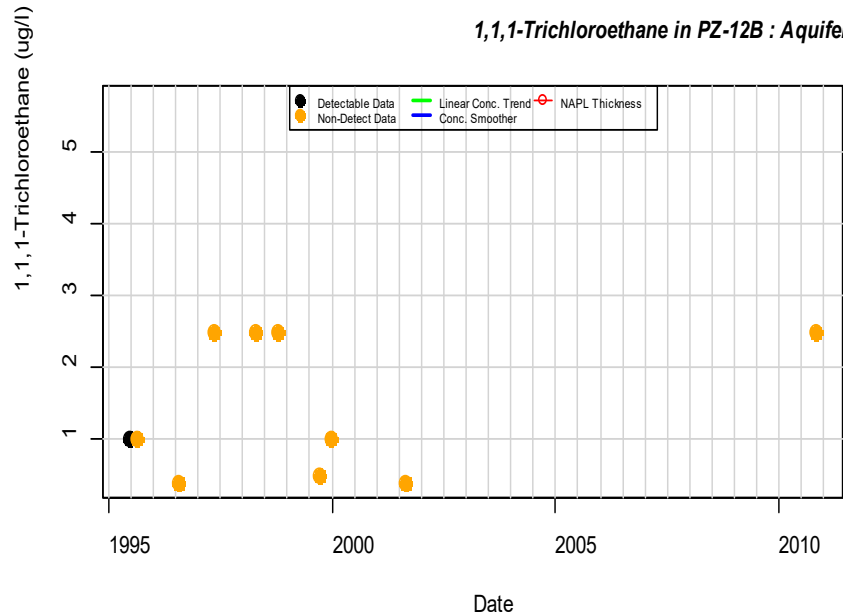
1,1,1-Trichloroethane in PZ-11 : Aquifer-D



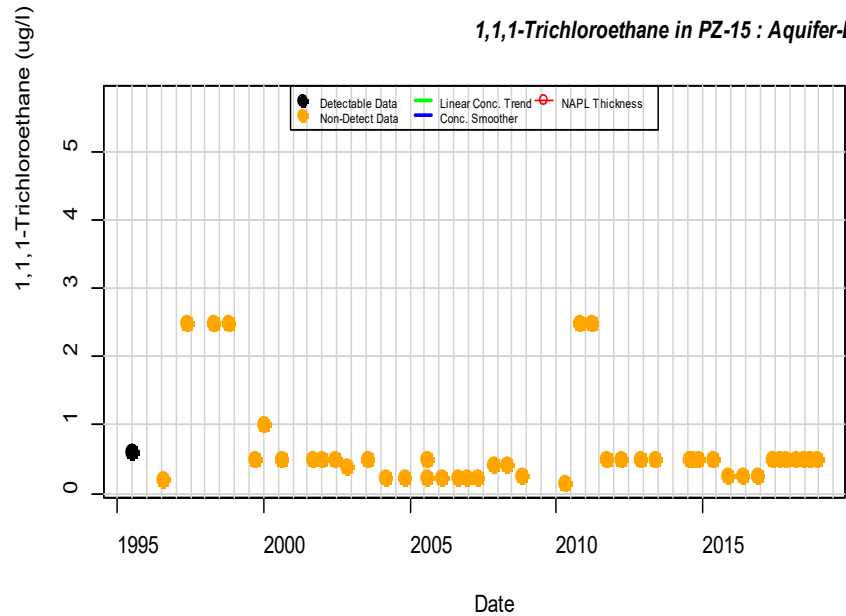
1,1,1-Trichloroethane in PZ-12 : Aquifer-D



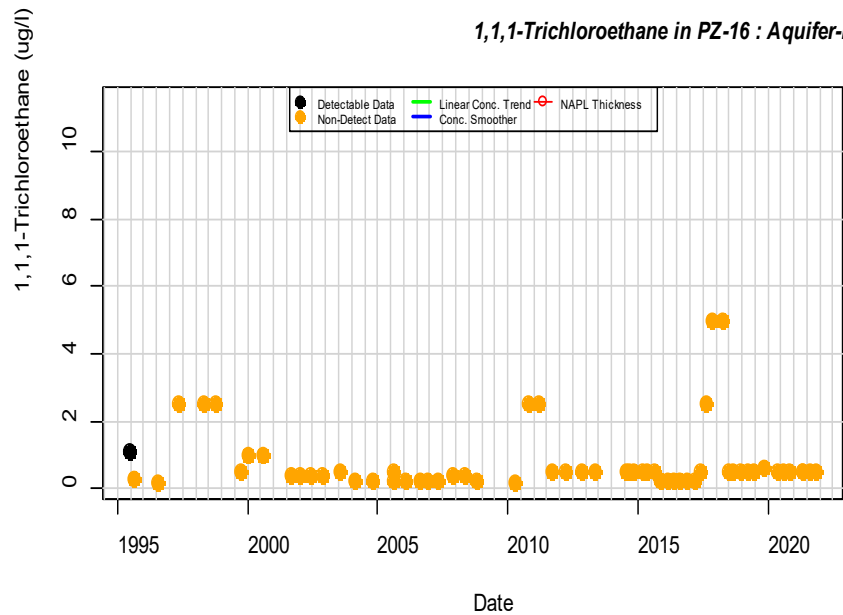
1,1,1-Trichloroethane in PZ-12B : Aquifer-D



1,1,1-Trichloroethane in PZ-15 : Aquifer-D

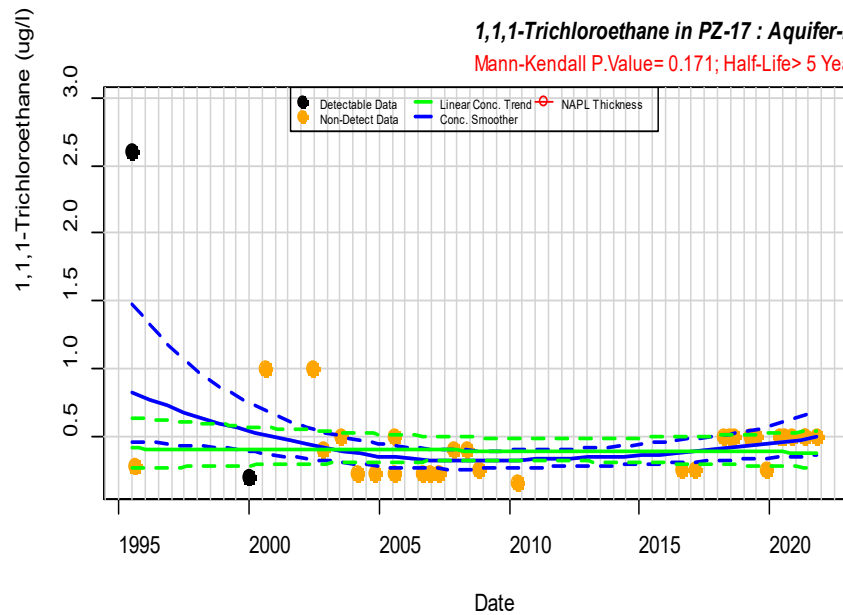


1,1,1-Trichloroethane in PZ-16 : Aquifer-D

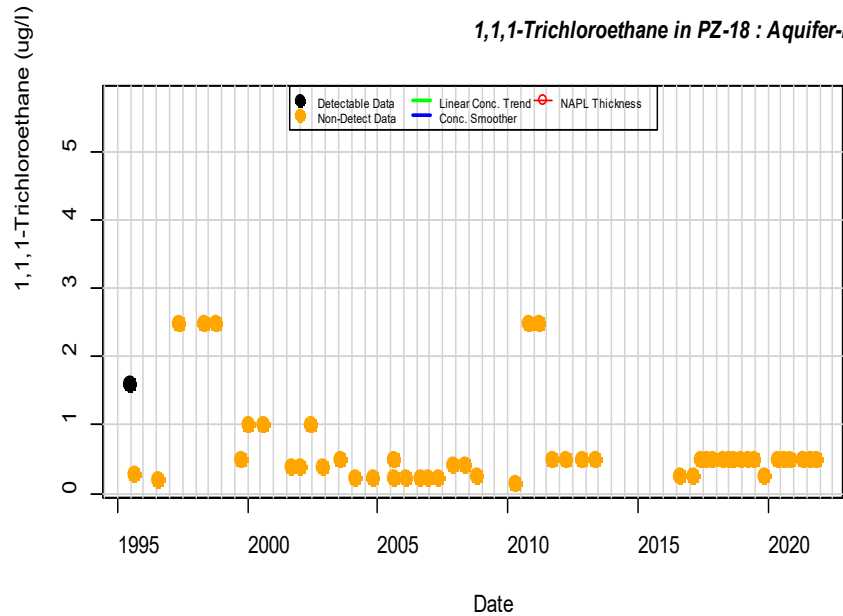


1,1,1-Trichloroethane in PZ-17 : Aquifer-D

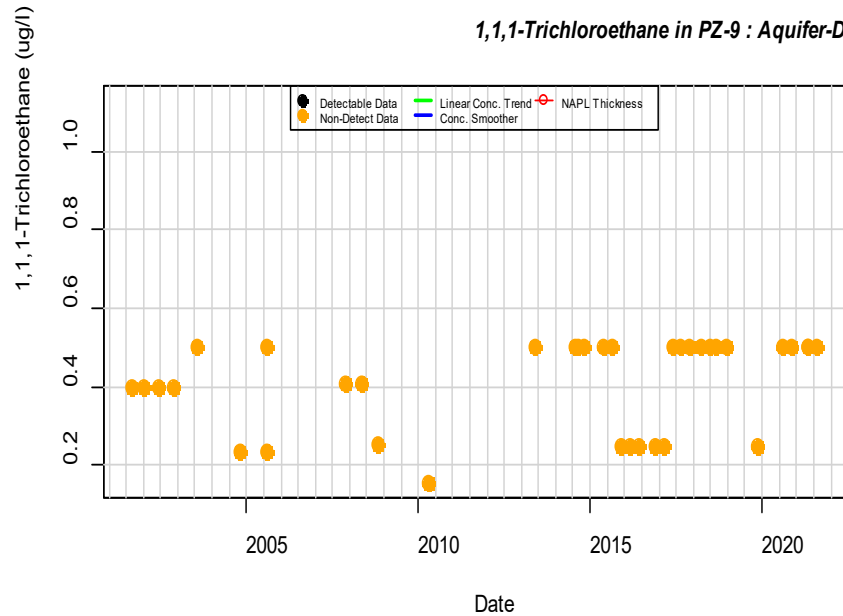
Mann-Kendall P.Value= 0.171; Half-Life> 5 Years



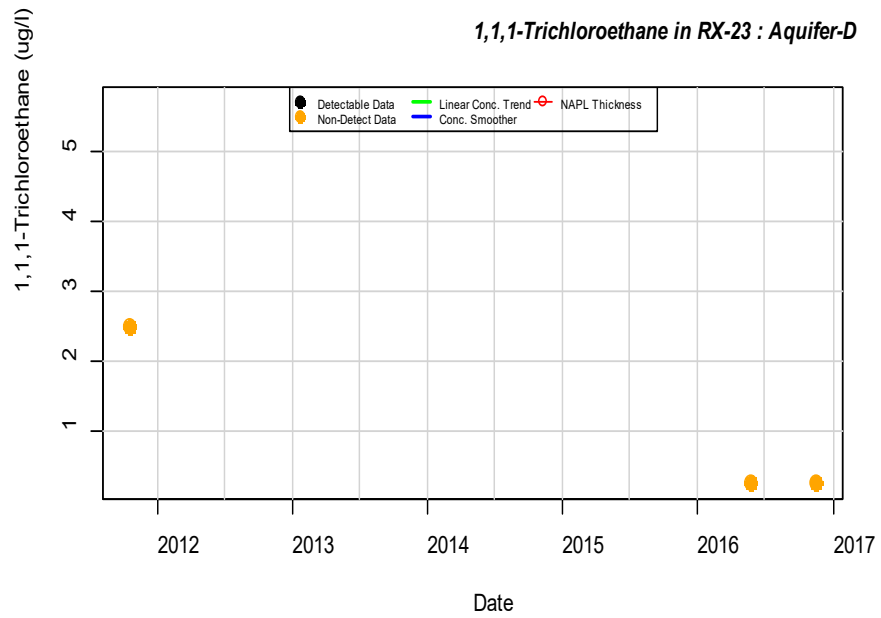
1,1,1-Trichloroethane in PZ-18 : Aquifer-D



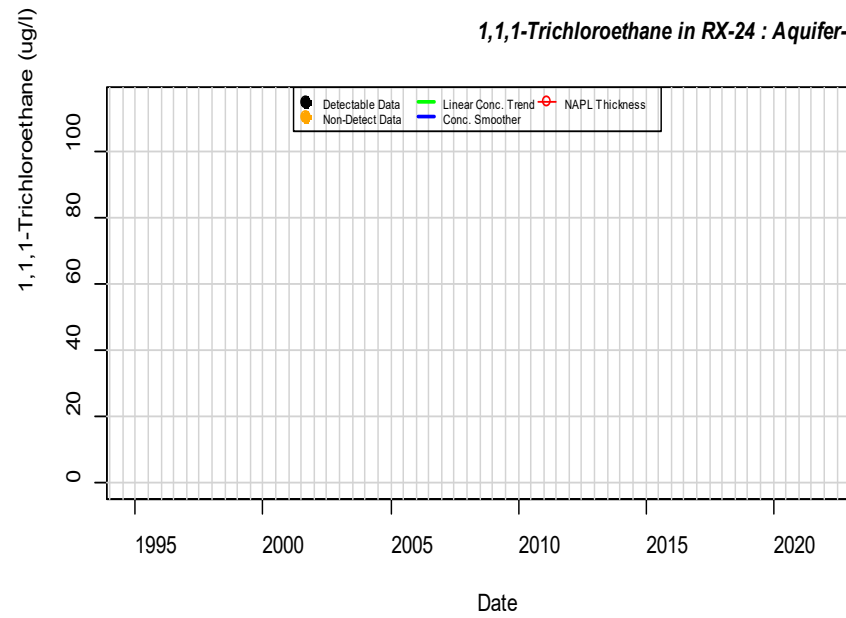
1,1,1-Trichloroethane in PZ-9 : Aquifer-D



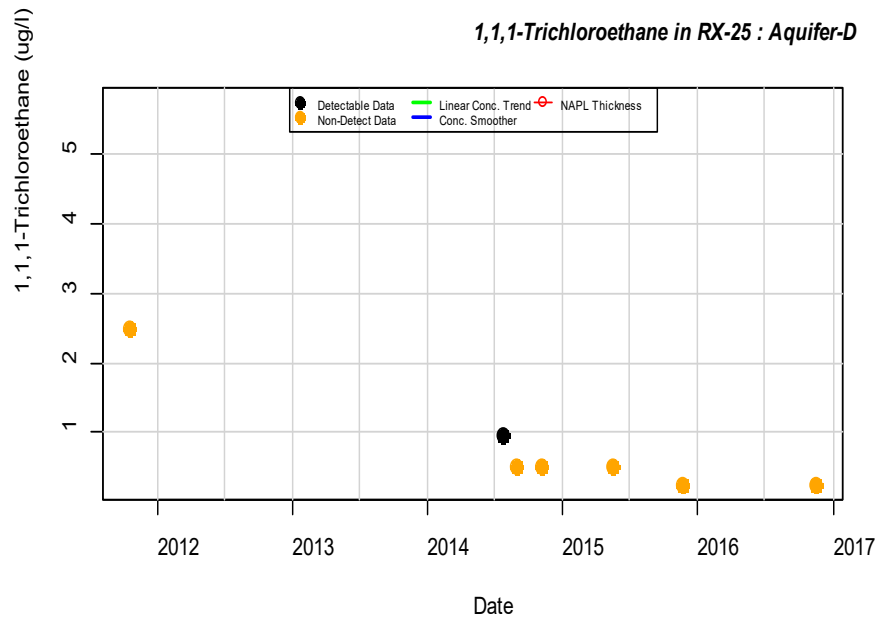
1,1,1-Trichloroethane in RX-23 : Aquifer-D



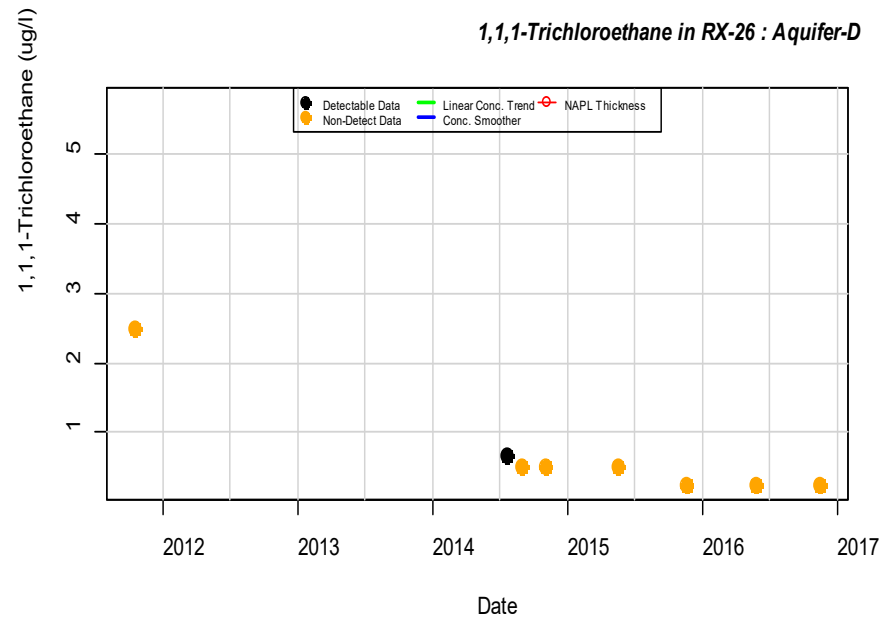
1,1,1-Trichloroethane in RX-24 : Aquifer-D



1,1,1-Trichloroethane in RX-25 : Aquifer-D

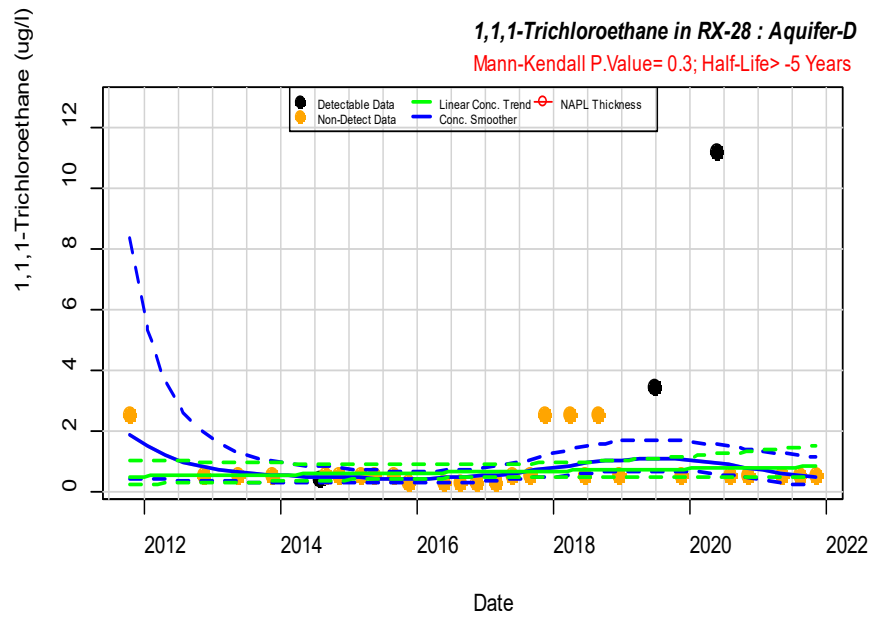


1,1,1-Trichloroethane in RX-26 : Aquifer-D

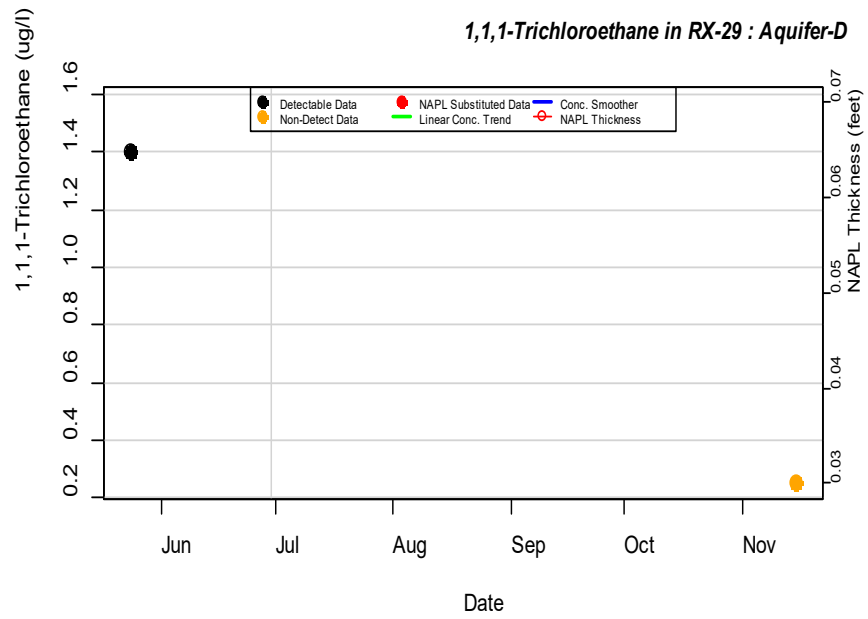


1,1,1-Trichloroethane in RX-28 : Aquifer-D

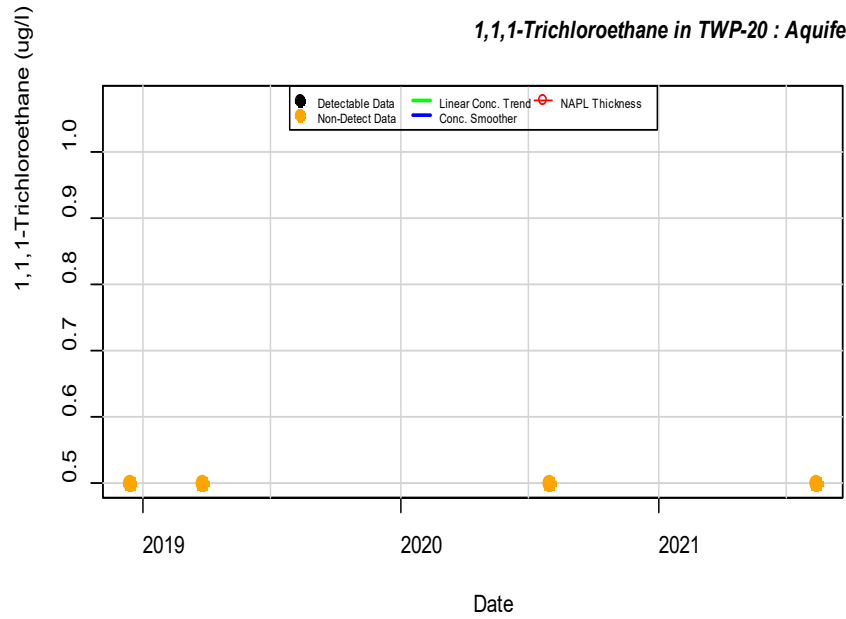
Mann-Kendall P.Value= 0.3; Half-Life> -5 Years



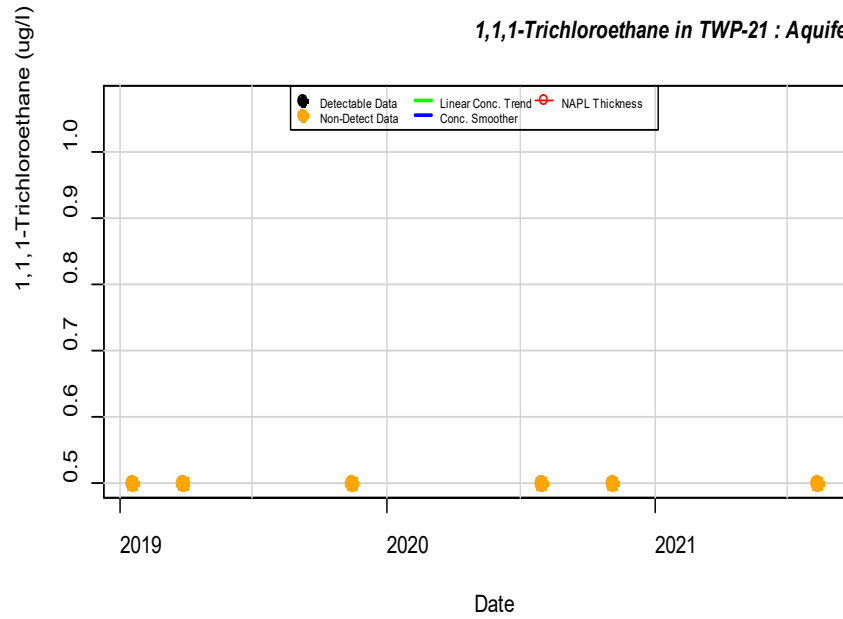
1,1,1-Trichloroethane in RX-29 : Aquifer-D



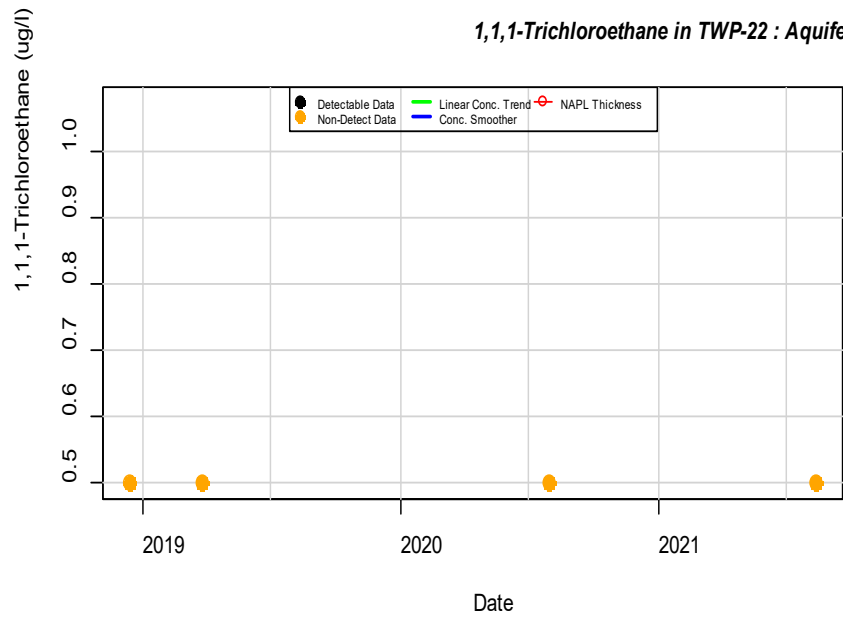
1,1,1-Trichloroethane in TWP-20 : Aquifer-D



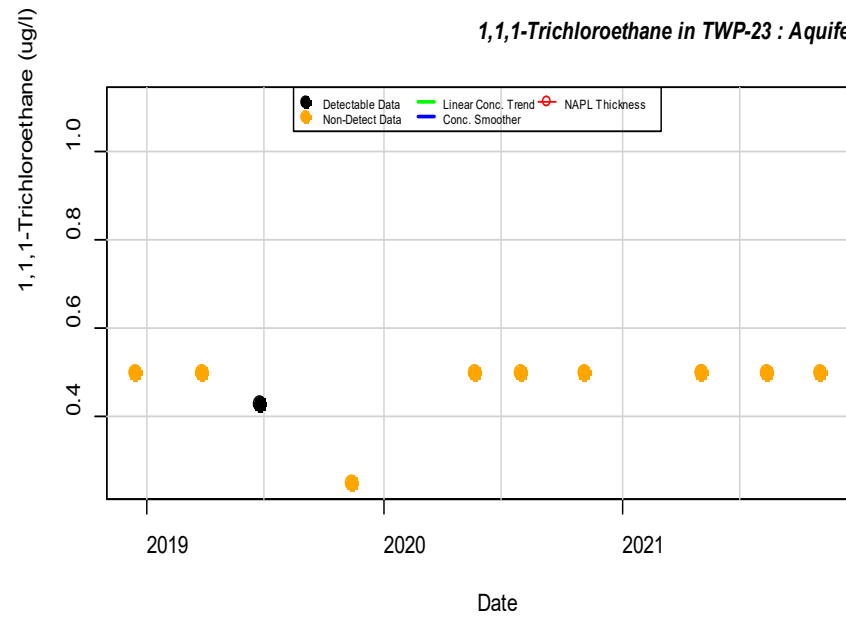
1,1,1-Trichloroethane in TWP-21 : Aquifer-D



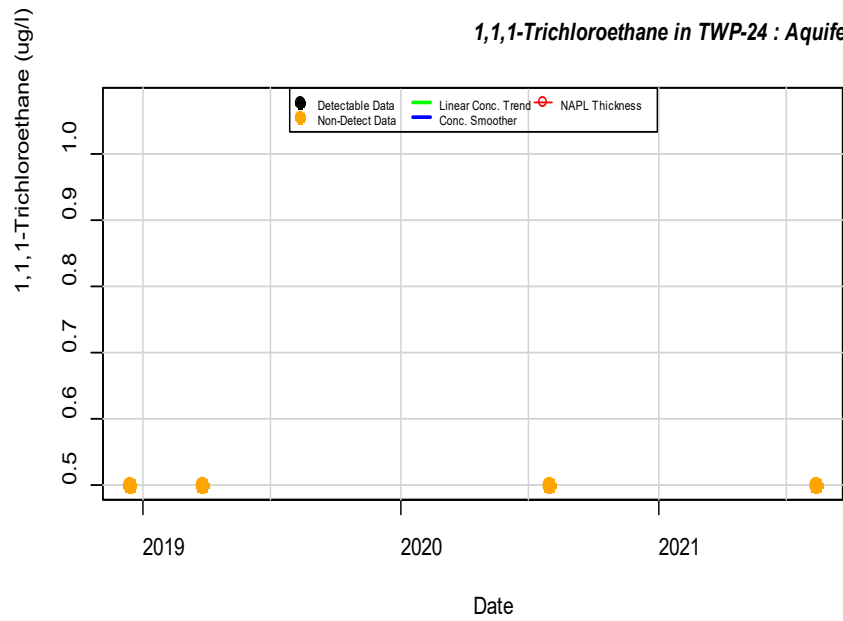
1,1,1-Trichloroethane in TWP-22 : Aquifer-D



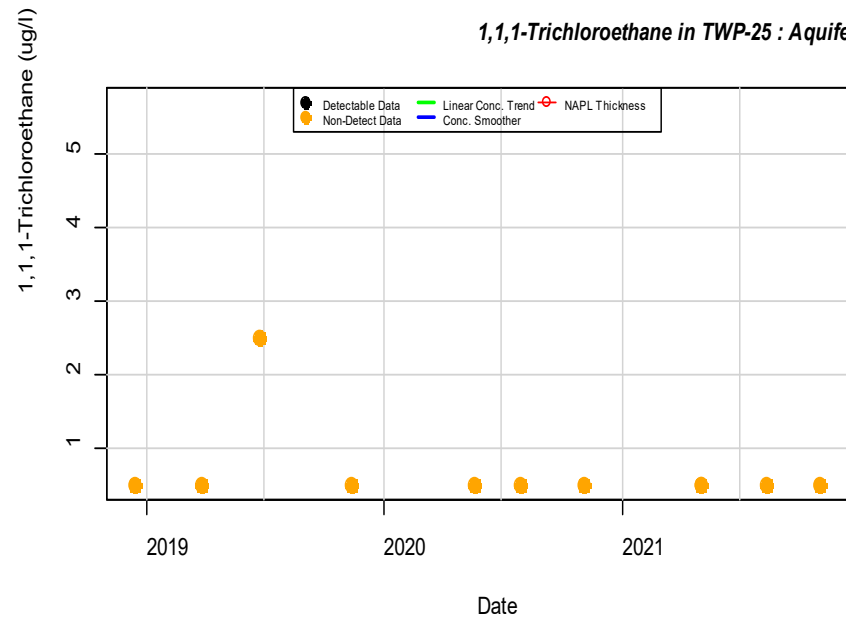
1,1,1-Trichloroethane in TWP-23 : Aquifer-D



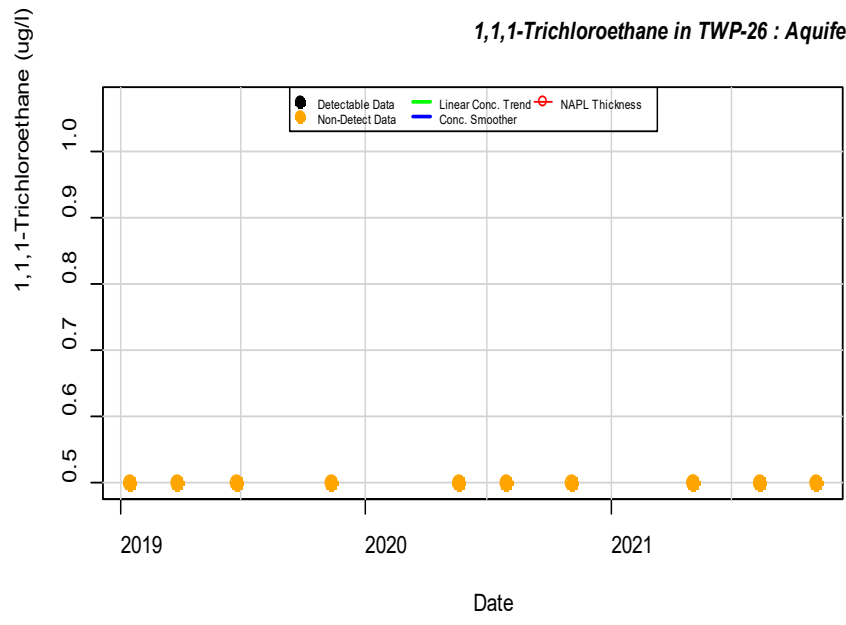
1,1,1-Trichloroethane in TWP-24 : Aquifer-D



1,1,1-Trichloroethane in TWP-25 : Aquifer-D



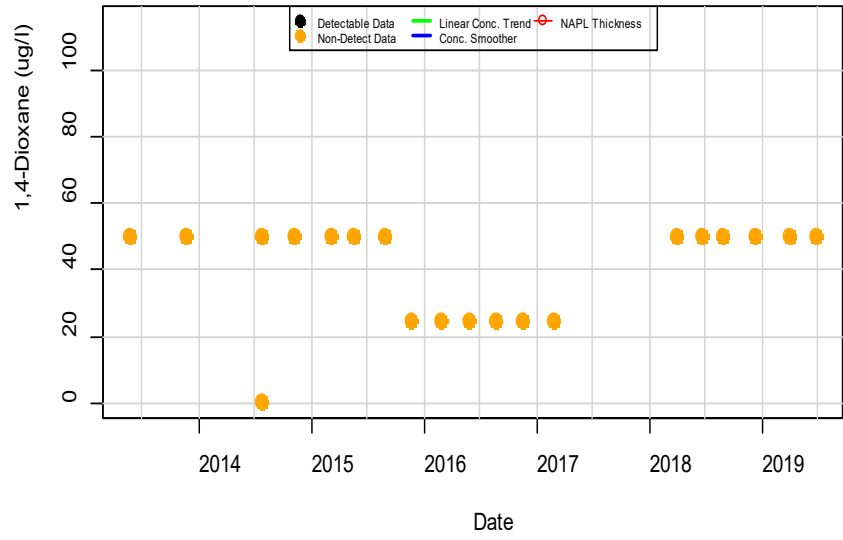
1,1,1-Trichloroethane in TWP-26 : Aquifer-D



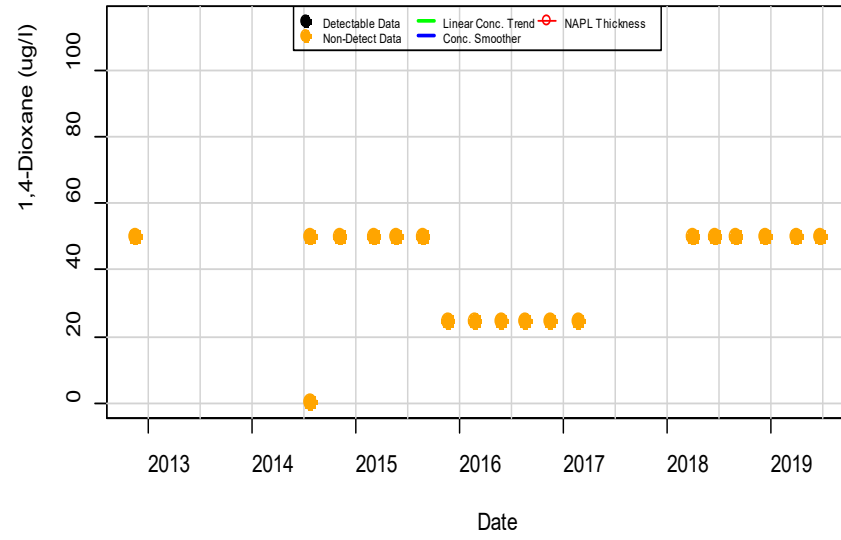
1,4-Dioxane

4 ug/L Threshold

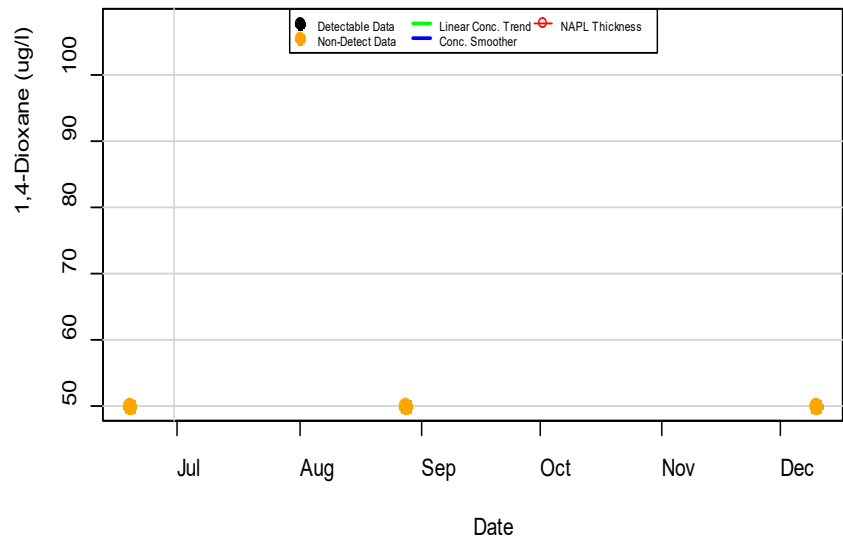
1,4-Dioxane in EW-501 : Aquifer-D



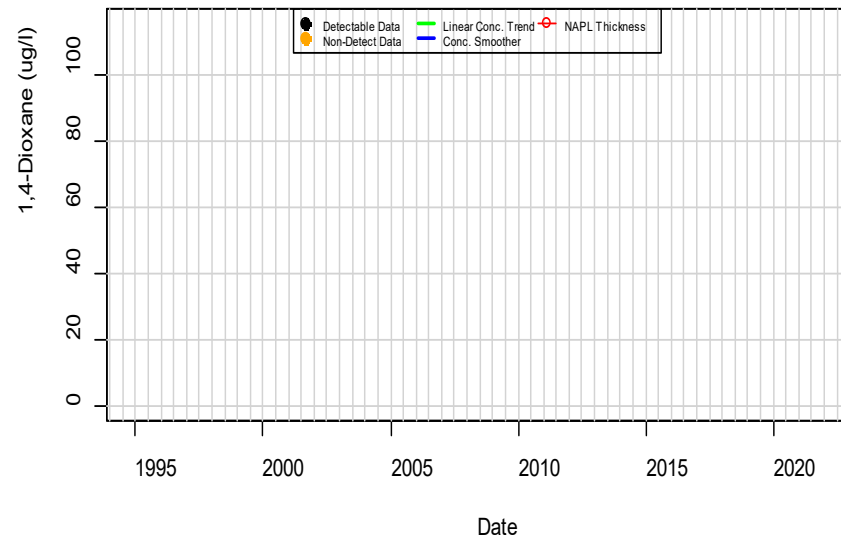
1,4-Dioxane in EW-601D : Aquifer-D



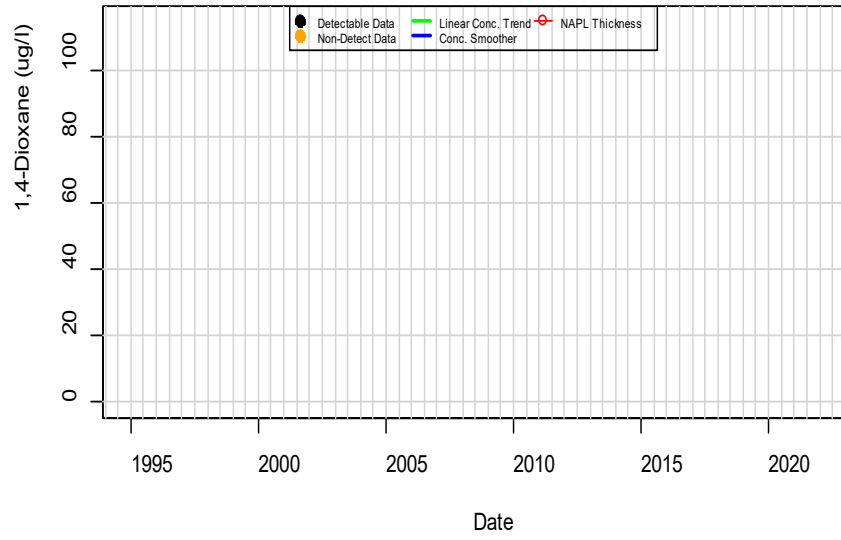
1,4-Dioxane in MW-102A : Aquifer-D



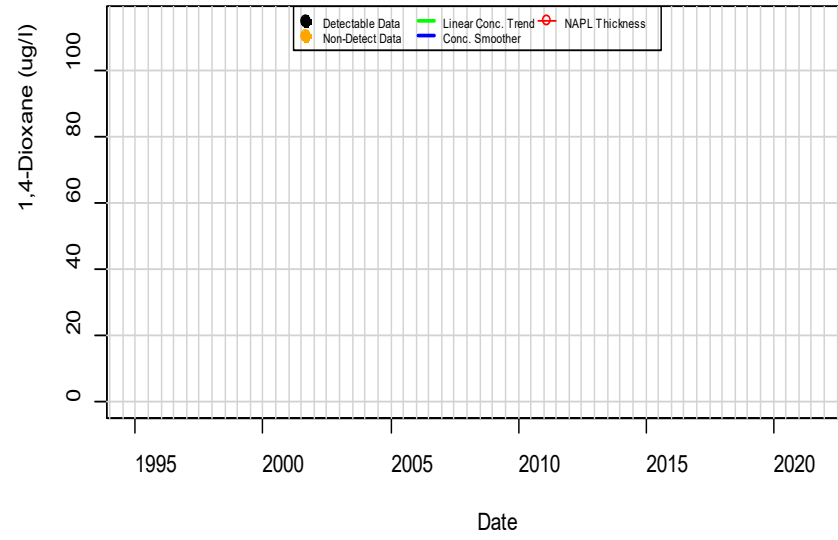
1,4-Dioxane in MW-206A : Aquifer-D



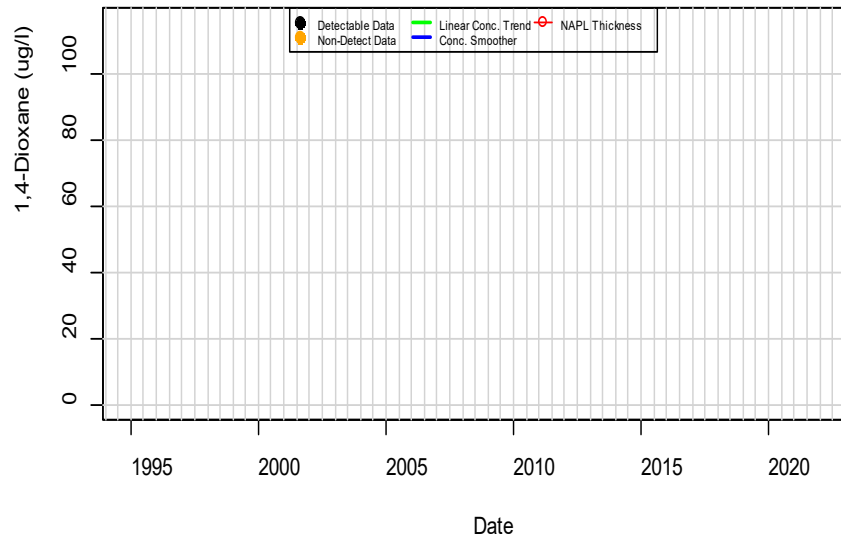
1,4-Dioxane in MW-34D : Aquifer-D



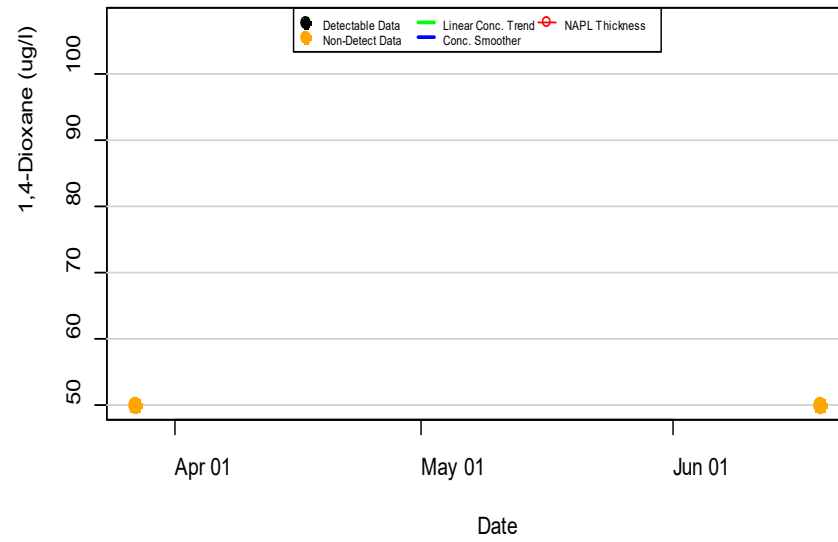
1,4-Dioxane in MW-35D : Aquifer-D



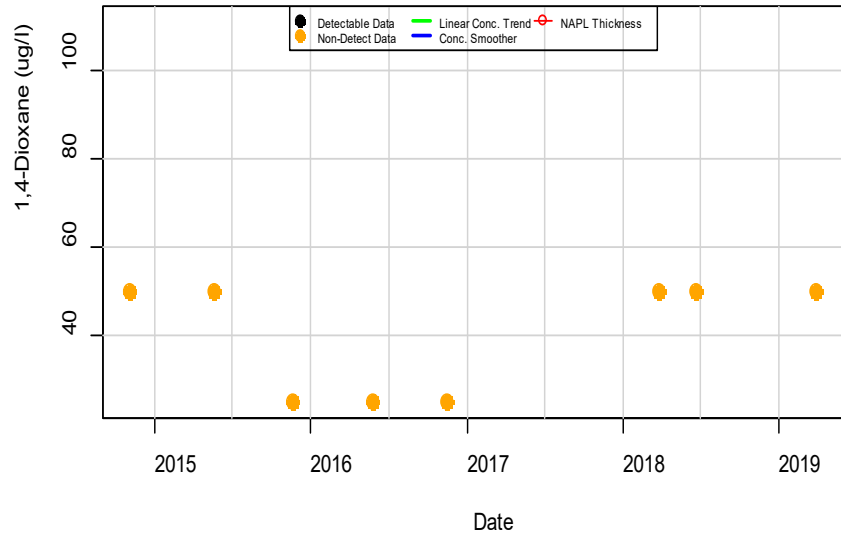
1,4-Dioxane in MW-36D : Aquifer-D



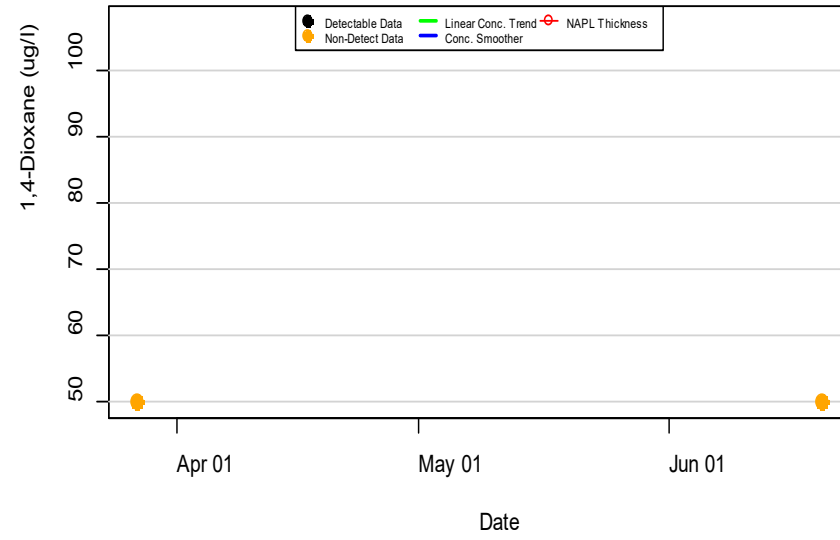
1,4-Dioxane in MW-404A : Aquifer-D



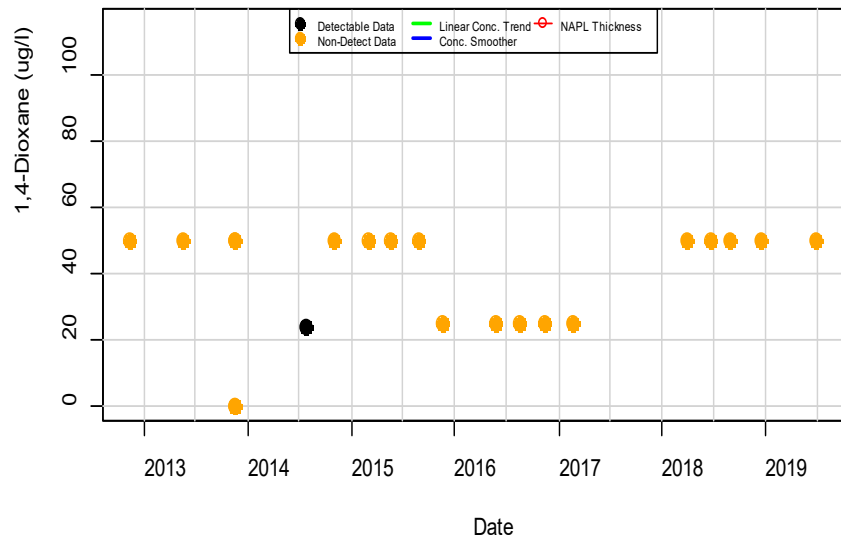
1,4-Dioxane in MW-406A : Aquifer-D



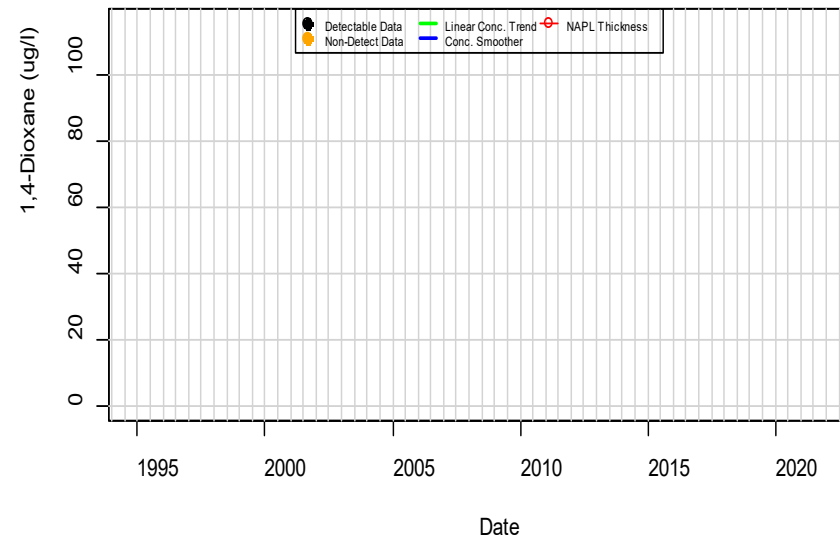
1,4-Dioxane in MW-407A : Aquifer-D



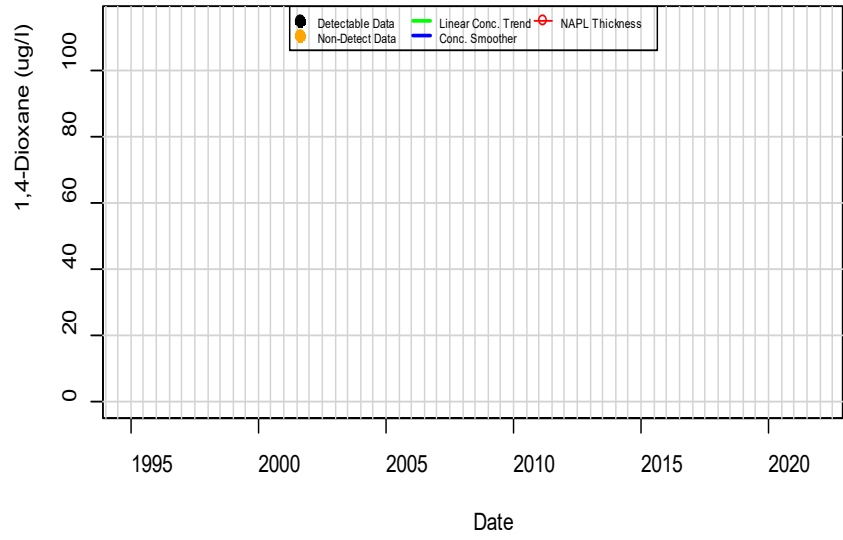
1,4-Dioxane in MW-408A : Aquifer-D



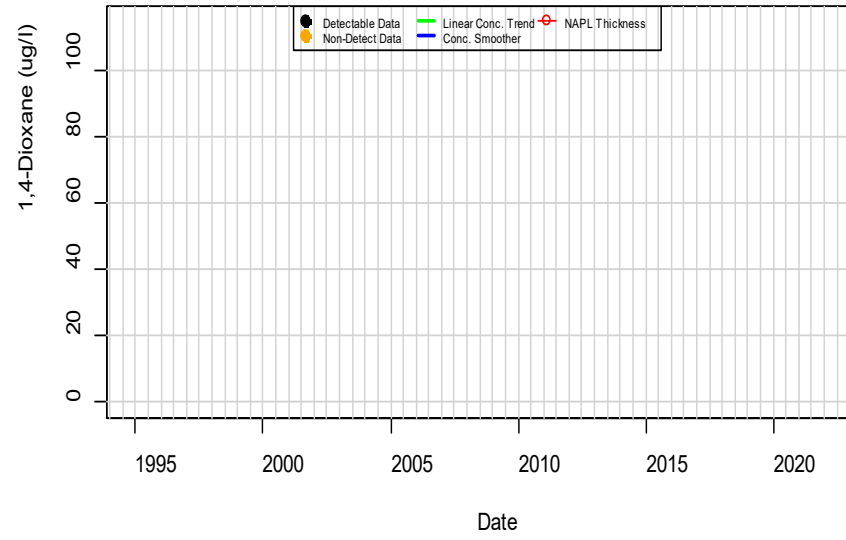
1,4-Dioxane in PW-501 : Aquifer-D



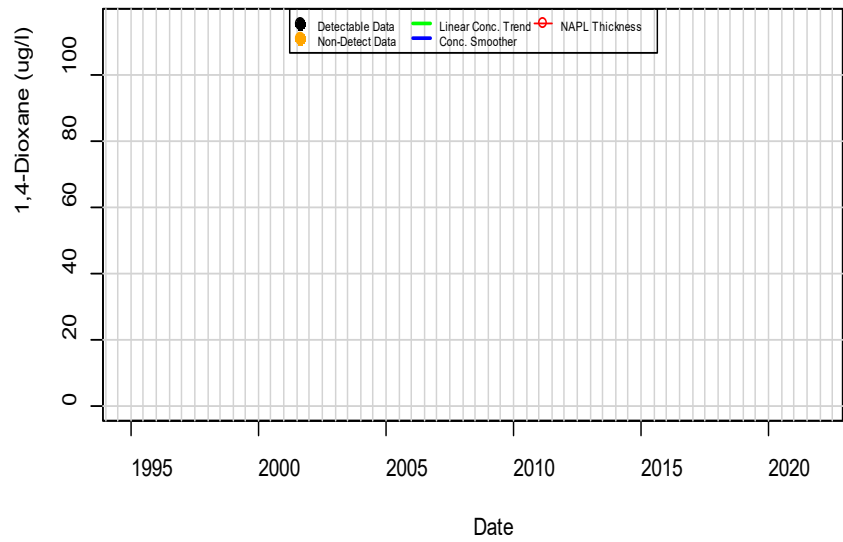
1,4-Dioxane in PZ-11 : Aquifer-D



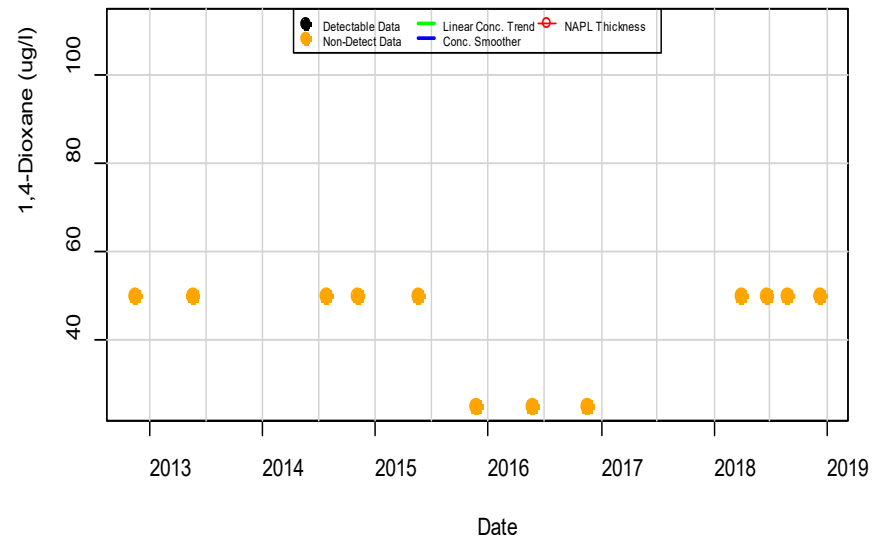
1,4-Dioxane in PZ-12 : Aquifer-D



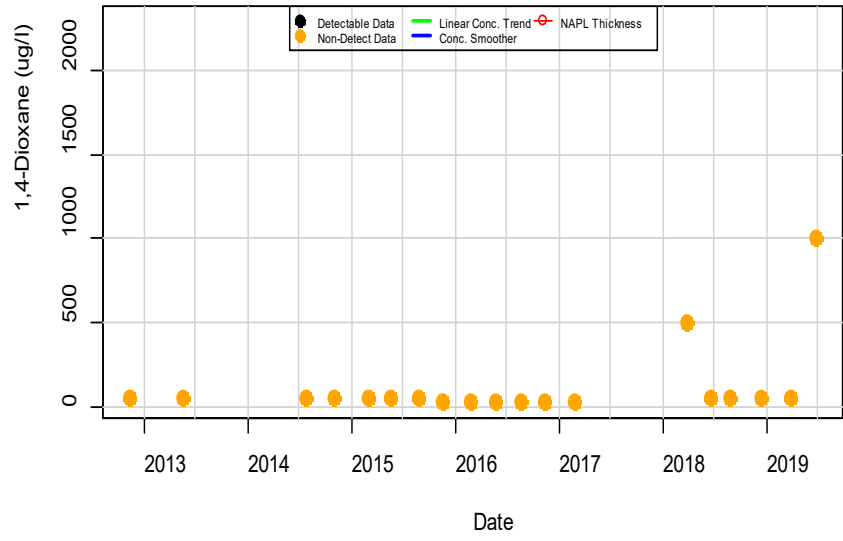
1,4-Dioxane in PZ-12B : Aquifer-D



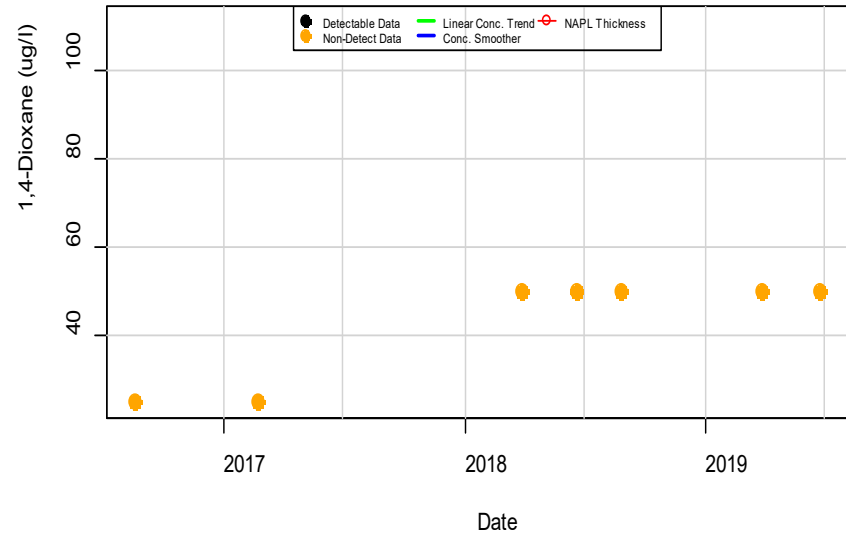
1,4-Dioxane in PZ-15 : Aquifer-D



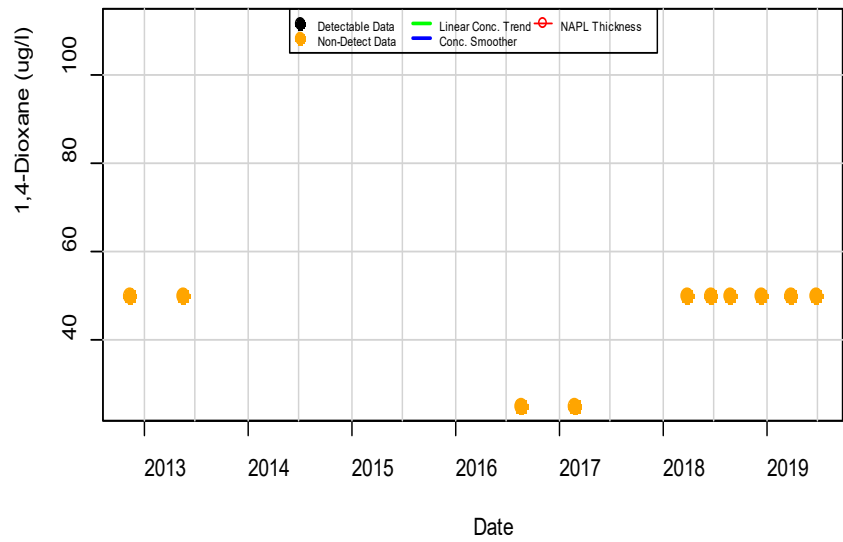
1,4-Dioxane in PZ-16 : Aquifer-D



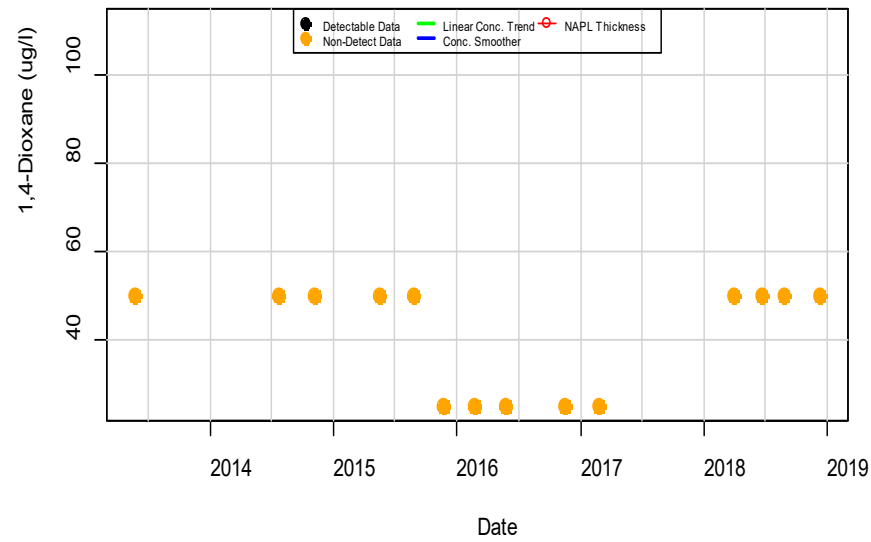
1,4-Dioxane in PZ-17 : Aquifer-D



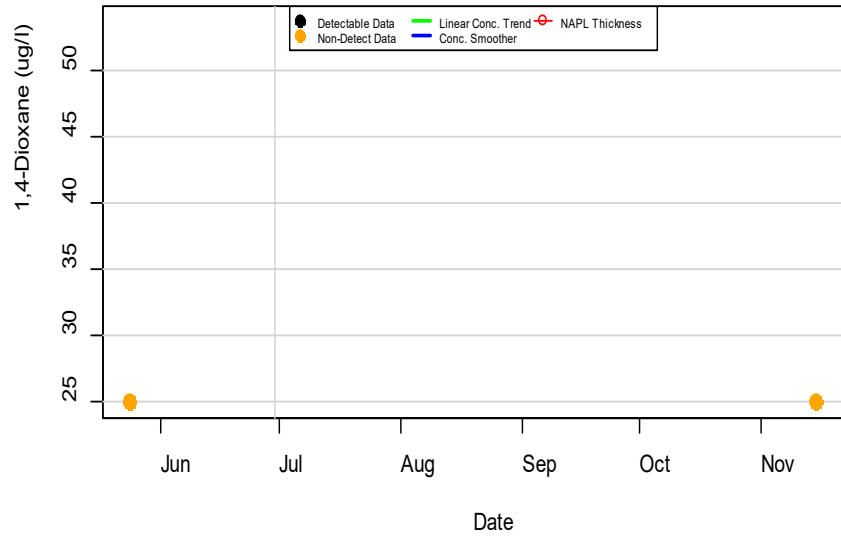
1,4-Dioxane in PZ-18 : Aquifer-D



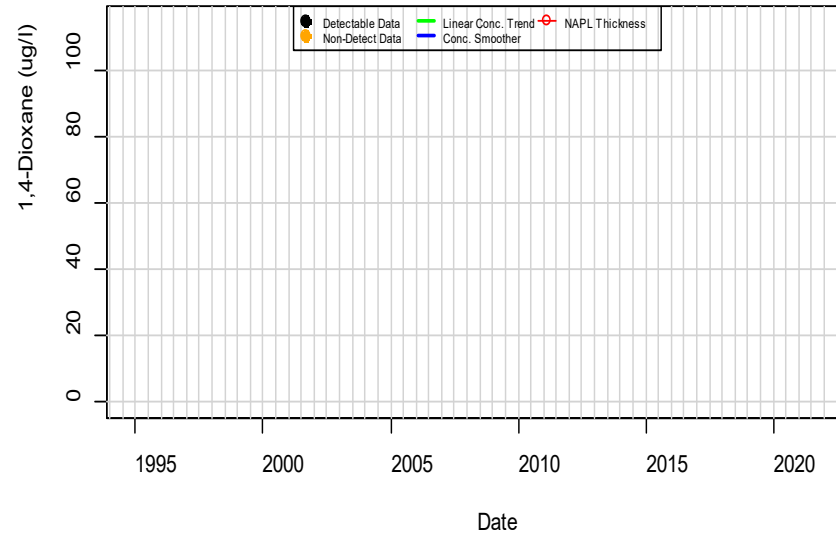
1,4-Dioxane in PZ-9 : Aquifer-D



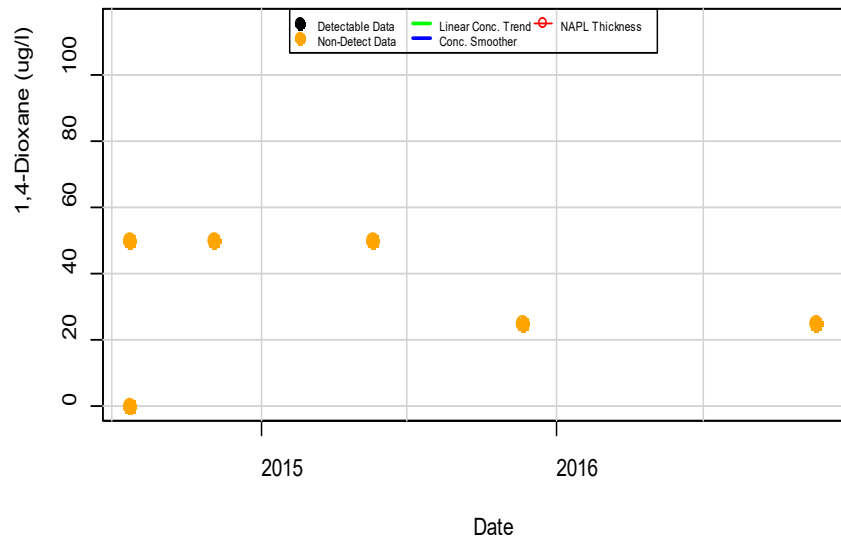
1,4-Dioxane in RX-23 : Aquifer-D



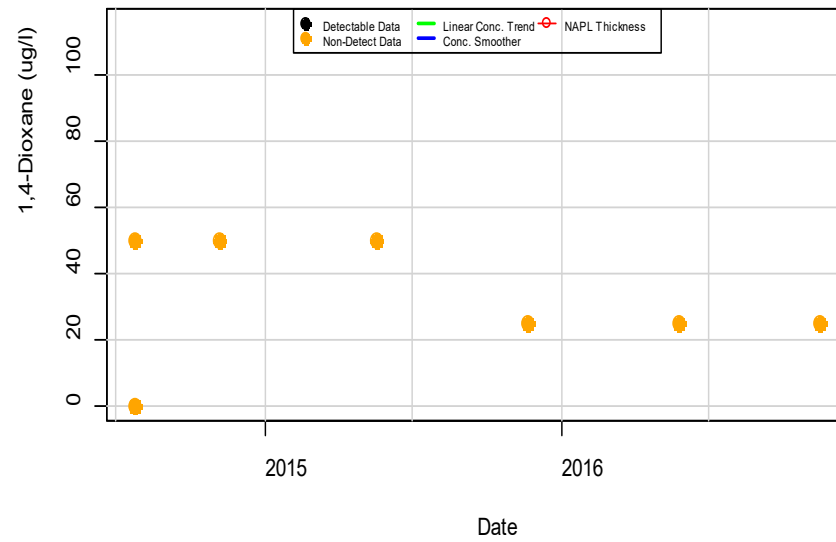
1,4-Dioxane in RX-24 : Aquifer-D



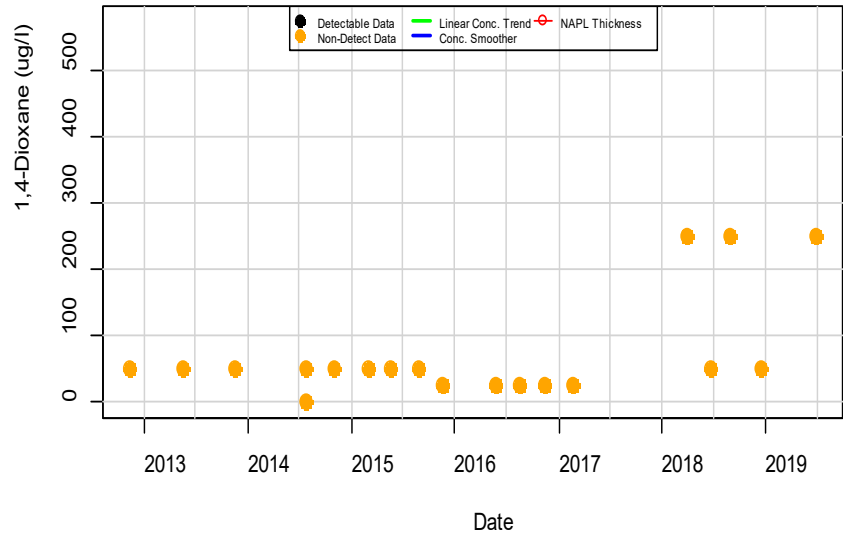
1,4-Dioxane in RX-25 : Aquifer-D



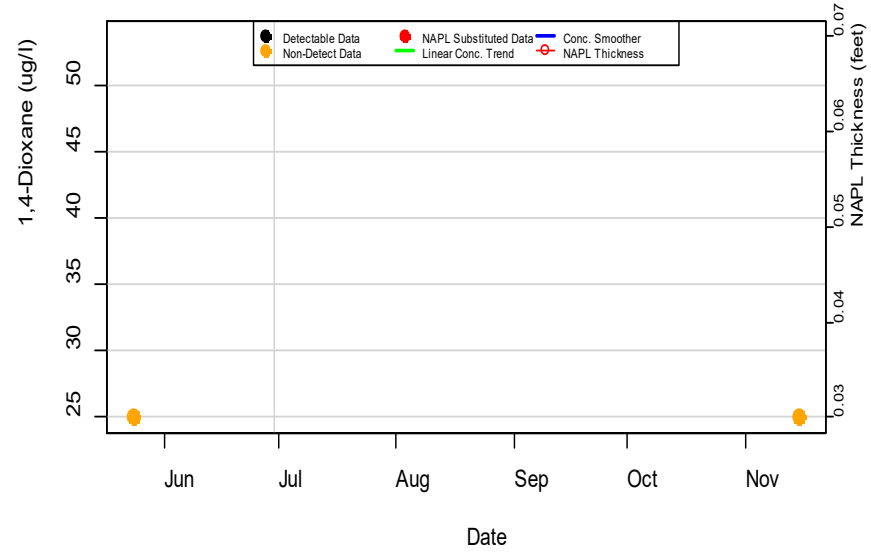
1,4-Dioxane in RX-26 : Aquifer-D



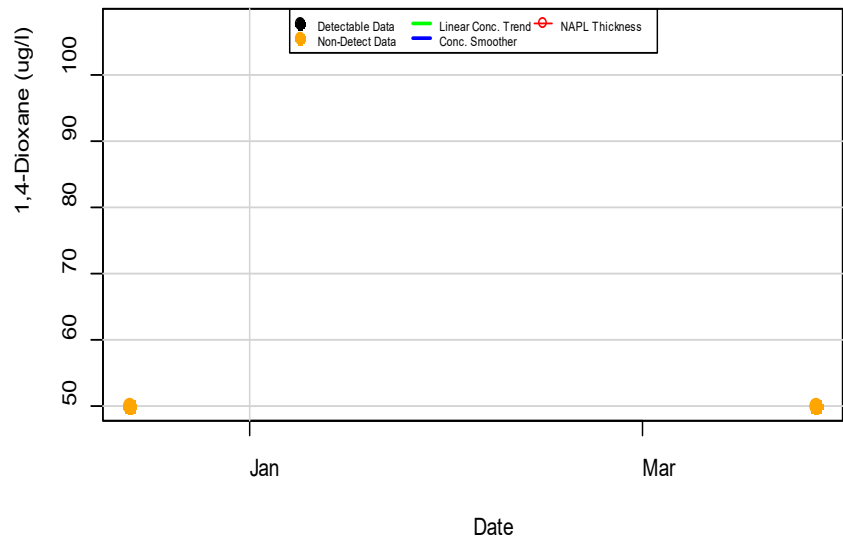
1,4-Dioxane in RX-28 : Aquifer-D



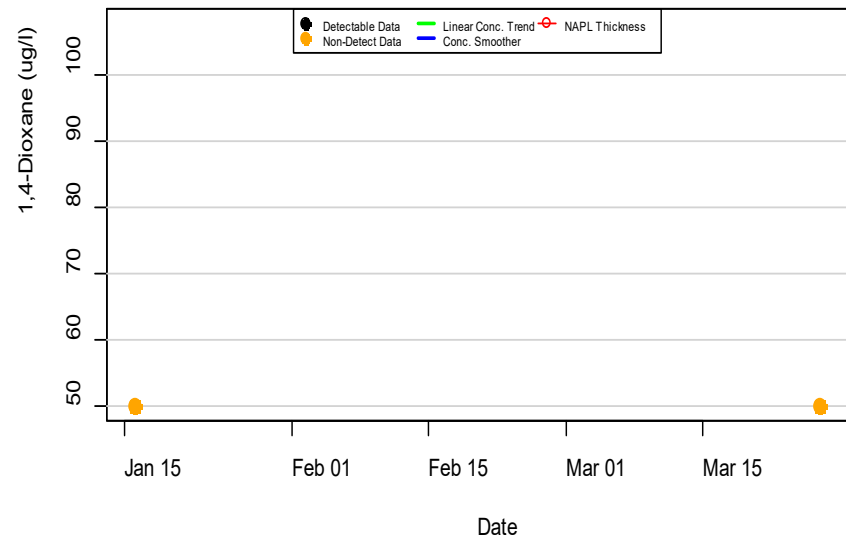
1,4-Dioxane in RX-29 : Aquifer-D



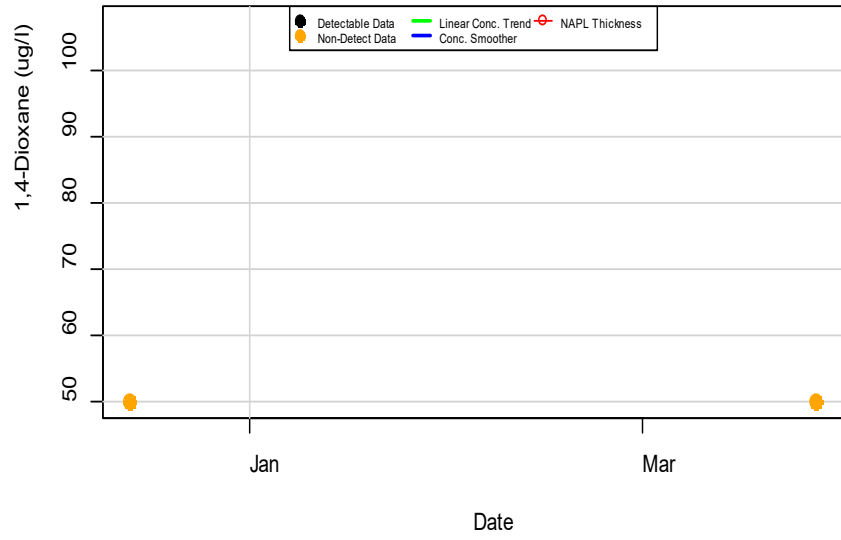
1,4-Dioxane in TWP-20 : Aquifer-D



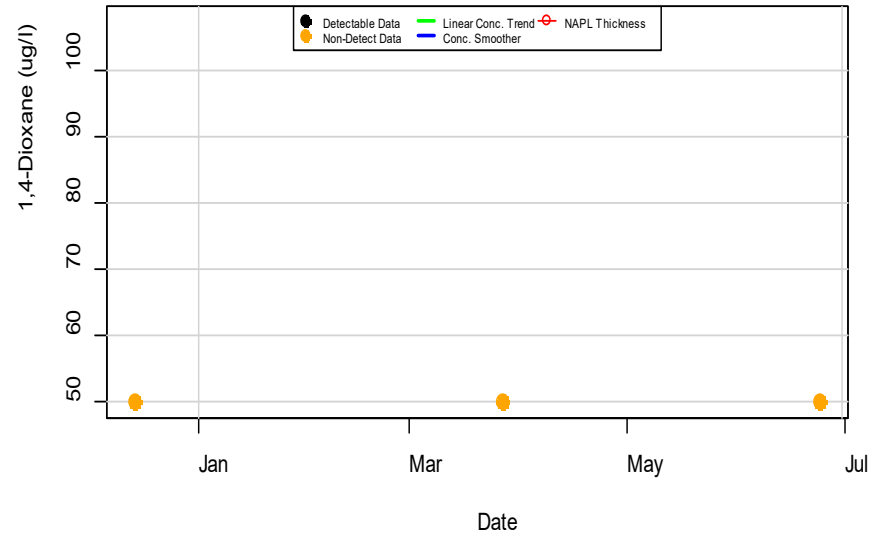
1,4-Dioxane in TWP-21 : Aquifer-D



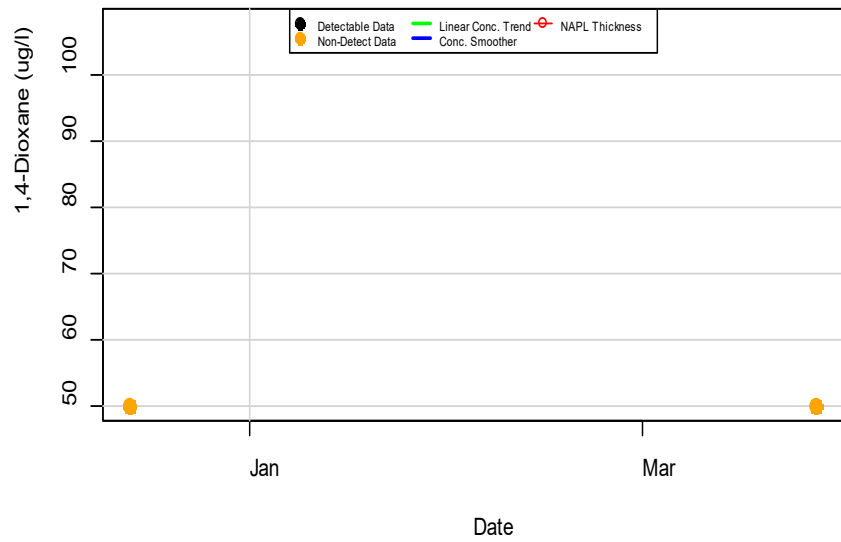
1,4-Dioxane in TWP-22 : Aquifer-D



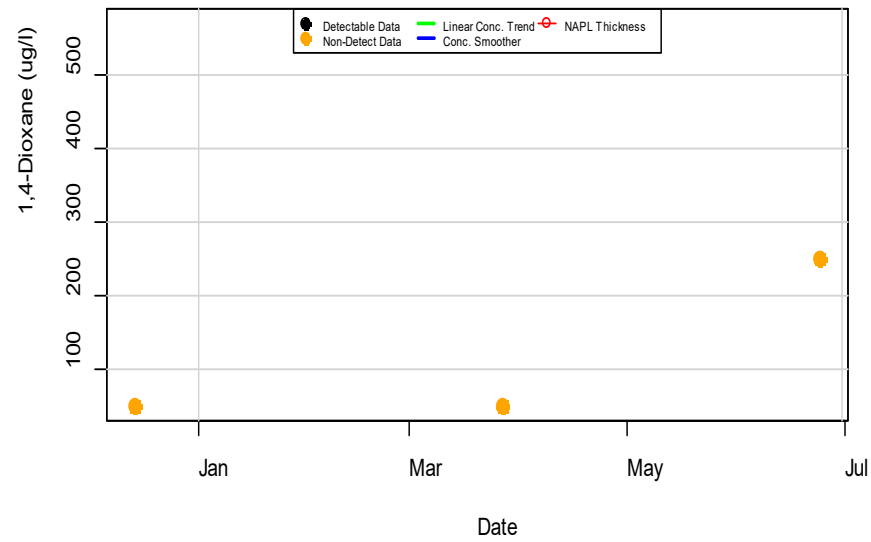
1,4-Dioxane in TWP-23 : Aquifer-D



1,4-Dioxane in TWP-24 : Aquifer-D



1,4-Dioxane in TWP-25 : Aquifer-D



1,4-Dioxane in TWP-26 : Aquifer-D

