

Limited Site Investigation Report

Blackhawk Junction

Prairie du Chien, Wisconsin

June 2021

Prepared for:



Wisconsin Department of Natural Resources
101 South Webster Street – RR/5
P.O. Box 7921
Madison, WI 53707-7921

Prepared by:



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Acronyms and Abbreviations

Bay West	Bay West LLC	RCRA.....	Resource Conservation and Recovery Act
CFR	Code of Federal Regulations	SAP.....	Sampling and Analysis Plan
CoC	chain of custody	SOP	standard operating procedure
GPS	global positioning system	SSHP	Site Safety and Health Plan
HSA	hollow stem auger	USEPA.....	U.S. Environmental Protection Agency
IDW.....	investigation-derived waste	UST.....	Underground Storage Tank
mL.....	milliliters	VOCs	Volatile Organic Compounds
NTP	Notice to Proceed	WDNR.....	Wisconsin Department of Natural Resources
OSHA	Occupational Safety and Health Administration		
PVC	Polyvinyl Chloride		
QAPP.....	Quality Assurance Project Plan		

1.0 INTRODUCTION

Bay West LLC (Bay West) has prepared this report to provide the results of the Limited Site Investigation (LSI) activities completed at the Blackhawk Junction Property (the Site) located in Prairie du Chien, Wisconsin. This LSI is based on the scope of work requested by the Wisconsin Department of Natural Resources (WDNR) and a Sampling and Analysis Plan (SAP) prepared by Bay West LLC (Bay West) dated September 2020.

This report summarizes the Site background and problem definition, sample network design, and field investigation and sampling results.

This report is organized as follows:

- Section 1 – Introduction
- Section 2 – Site Background and Objectives
- Section 3 – Scope and Rationale of Limited Site Investigation
- Section 4 – Monitoring Well Installation and Sampling
- Section 5 – Groundwater Sampling Results
- Section 6 – Conclusions and Recommendations
- Section 7 – References

Interested Parties:

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2.0 SITE BACKGROUND AND OBJECTIVES

2.1 Site Background

The Site property is located at 700 East Blackhawk Avenue, Prairie du Chien, Crawford County, Wisconsin 54738 (**Figure 1**), and is approximately 9.13 acres in size. The Property is a largely vacated site that was built over a 20-year period beginning in 1962. It has historically operated with multiple commercial, service and retail operations, with multiple drycleaners functioning onsite. The Property is currently improved with two buildings: one approximately 60,000 square foot vacant building and one approximately 20,000 square foot commercial building occupied by H & R Block, Mississippi Meats, and Associated Bank (**Figure 1**).

Per the Crawford County Interactive Parcel Application Map, the parcel identification numbers (PIDs) for the Property are 27107490000 & 27107500000. The center of the Property is located at latitude 43.0512140° and longitude -91.1368730° (decimal degrees). The Property is not platted through the Public Land Survey System based on its location in the un-platted City of Prairie du Chien.

The property is improved with a shopping center and parking lots, with one of the two remaining on-site buildings currently occupied, addressed as 700 E Blackhawk Ave. Current Property tenants in the 700 E Blackhawk Ave building include Associated Bank, H & R Block, Mississippi Meats, and Suppz Gym. The other building was vacant at the time of the Bay West Phase I ESA in October 2019.

Available historical information indicates the Property has been improved by commercial retail buildings since the 1960s. It has historically operated with multiple commercial, service and retail operations, including a car wash/gasoline service station and several dry cleaning tenants.

In 1991, tetrachloroethene (PCE) was detected in the soil and groundwater on the site after chlorinated volatile organic compound (CVOC) contamination was detected in two nearby municipal wells. Limited assessments were conducted in 2009-2010 (Ayres 2009 and 2010), but the nature, degree, and extent of contamination is unknown; providing a barrier to redevelopment. A fire destroyed a significant part of the larger building in 2014 including the area where the drycleaners had been located. Crawford County acquired the Site through tax forfeiture in June 2019.

In October 2019 Bay West conducted a Phase I ESA on the Site on behalf of the WDNR. Bay West's Phase I report identified the following recognized environmental conditions (RECs) and vapor encroachment concerns (VECs) associated with the Site:

- The documented presence of PCE and other CVOCs in soil, groundwater, and soil vapor at locations onsite and in the surrounding area represents a REC and a VEC for the Property.
- The potential for a release from USTs associated with a former gasoline service station/car wash and associated pump island located in the northeastern portion of the Property represent a REC and VEC for the Property.

Bay West completed a Phase II ESA on the Site in March 2020; this scope of work included advancing eight soil borings (SB-01 through SB-08) to depths of 30 feet below ground surface (bgs) near the former dry cleaners (SB-01 through SB-04), and to depths of 15 feet bgs near the former car wash/gasoline service station (SB-05 through SB-08). Soil samples were collected near the boring terminus for analysis of contaminants of concern related to the historical uses of the property as a dry cleaner and service station.

All soil samples collected during this Phase II were analyzed for volatile organic compounds (VOCs); soil samples collected from SB-05 through SB-08 were also analyzed for Resource Conservation and Recovery Act (RCRA) metals and diesel-range organics (DRO). Soil sample laboratory results were compared to Wisconsin Administrative Code § NR 720 non-industrial direct contact residual contaminant levels (RCLs) and protection of groundwater RCLs. None of the analytes were detected at concentrations exceeding Wisconsin Department of Natural Resources (WDNR) non-industrial direct contact RCLs or protection of groundwater RCLs, except for PCE and arsenic as described. PCE was detected at an estimated concentration above the protection of groundwater RCL in SB-03 (23-25). Arsenic was detected at estimated concentrations above the groundwater RCL, but below the background threshold value in SB-05 (4-8), SB-06 (4-8), and SB-07 (4-8).

Bay West collected groundwater samples from four of the soil boring locations (SB-01 through SB-04) near the former dry cleaner. Groundwater samples were analyzed for VOCs. Laboratory results of groundwater samples were compared to Wisconsin Administrative Code § NR 140 Enforcement Standards (ES) and Preventive Action Limits (PALs). Laboratory analysis of the groundwater samples did not indicate the presence of VOCs at concentrations greater than their respective NR 140 PALs and/or ESs with the exception of PCE. PCE concentrations were above the NR 140 PALs in all groundwater samples collected. Furthermore, PCE concentrations were above the NR 140 ES of 5 micrograms per liter in groundwater samples collected from SB-03 and SB-04.

Soil vapor samples were collected for analysis of VOCs in order to assess potential vapor intrusion concerns. PCE was detected at concentrations exceeding WDNR Sub-Slab Air Vapor Limits for residential use in samples collected from SV-02, SV-03, and SV-04. None of the other analytes were detected at concentrations exceeding WDNR Sub-Slab Air Vapor Limits for residential use.

In August 2020 the WDNR requested that Bay West conduct additional groundwater assessment activities near the former dry cleaner building. Specifically, the WDNR requested that Bay West install monitoring wells and conduct groundwater sampling to define the degree and extent of PCE contamination in groundwater to the west, southwest, and east of the former dry cleaners building.

2.2 Limited Site Investigation Objectives

The objective of this LSI was to delineate the degree and extent of PCE contamination in groundwater at the Site. Specifics of the sampling design are provided in **Section 3.0**, a summary of the field activities is provided in **Section 4.0**, and the results of the groundwater sampling activities are provided in **Section 5.0**.

2.3 Safety and Security

Site safety and security was addressed in the Site Safety and Health Plan (SSHP). All field staff maintain health and safety training to ensure compliance with Occupational Safety and Health Administration (OSHA) as established in 29 Code of Federal Regulations (CFR) 1910.120 and 29 CFR 1910.126 (as applicable).

3.0 SCOPE AND RATIONALE OF LIMITED SITE INVESTIGATION

Previous groundwater sampling work completed at the Site had not delineated the extent and magnitude of groundwater contamination and a network of wells did not exist to document the plume stability and degradation. To complete the delineation, Bay West completed the following scope of work:

- Prior to well installation activities Bay West located buried utilities in the project area through the Wisconsin Diggers Hotline one-call system. The drilling contractor also utilized a private utility locator as needed.
- Advanced five hollow-stem auger borings to depths of approximately 30 feet below grade at the locations illustrated on **Figure 1**. These borings were completed as 2-inch diameter PVC monitoring wells with 15-foot screens set at approximately 15-30 feet below grade. The well locations were intended to provide an upgradient clean well (MW-1), a source well (MW-3), two side-gradient delineation wells, (MW-2 and MW-4), and one down gradient clean well (MW-5).
- Surveyed the top of casing elevations of the newly installed monitoring wells to allow for groundwater elevation contouring.
- Conducted two rounds of groundwater sampling at the 5-well network (February and April 2021).
- Collected groundwater samples using a low-flow sampling method following stabilization of field parameters. The samples were submitted to Pace Analytical Services for analysis of VOCs using EPA Method 8260.

4.0 MONITORING WELL INSTALLATION AND SAMPLING

Bay West mobilized with a drilling contractor (Badger State Drilling) to install the five monitoring well network in January 2021. Subsequent groundwater sampling events were completed in February and April 2021 in accordance with the approved LSI Sampling and Analysis Plan SAP. This section describes the well installation and sampling activities.

4.1 Monitoring Well Installation

4.1.1 Soil Boring/Well Installation

The soil borings were completed using 4.25-inch inside diameter hollow stem augers advanced to approximately 30 feet below grade.

The lithology observed at the boring locations can be characterized as silty sand and silty clay from the ground surface to a depth of 3 to 5 feet below grade. These fine-grained soils were underlain primarily by well graded coarse-grained sand to depths of approximately 26 feet below grade. Bay West was unable to log the boring lithology below 26 feet because of sand sloughing and blow-up in the augers. The fact this sloughing and blow-up was occurring is an indication that these primarily sand sediments continued to the termination depth of the borings at 30 feet below grade. Detailed boring lithology is included on the boring logs in **Appendix A**.

The driller then installed 2-inch diameter PVC monitoring wells with 15-foot screens set at approximately 15-30 feet below grade at each boring location. Monitoring wells MW-01 through MW-04 were completed as above-grade completions with protective casings and locking caps. Monitoring well MW-05, located to the west of the Site in a nearby alley was completed as a flush grade well. Borings logs and well construction diagrams are included in **Appendix A**. A summary of well construction information is included in **Table 1**.

Following installation, a sub-meter global positioning system (GPS) unit was used to map all well locations. The well locations are depicted on **Figure 1**.

4.1.2 Surveying

Following installation of the new monitoring wells, Bay West field staff surveyed their top of casing and ground surface elevations using a laser survey level. Elevation measurements were tied to an arbitrary 100-foot datum with a nearby manhole as a benchmark which allowed Bay West to contour groundwater elevations from the five wells and evaluate groundwater flow direction. Well survey information is provided in **Table 1**.

4.2 Monitoring Well Sampling

4.2.1 Groundwater Sampling

Prior to purging and groundwater sample collection Bay West gauged groundwater levels in all wells using an electronic water level indicator. Water level measurements were collected to the nearest hundredth of a foot.

Bay West used low-flow sampling techniques to purge and sample the wells. The low-flow method involves purging the well at a low rate (<0.5 liters/minute) while maintaining little or no drawdown within the well column, leaving stagnant water above the well screen in place while drawing directly from the aquifer. This method minimizes the potential for raising the turbidity in the well which could bias both inorganic and organic results.

Bay West sampled the wells using either a peristaltic pump and high-density polyethylene tubing or a low-flow bladder pump with high-density polyethylene tubing. Once the well drawdown stabilized, a flow through cell was connected to the purge line and the following parameters were

measured and recorded every 3 to 5 minutes until all parameters stabilized for three consecutive readings or until a maximum of 1 hour:

<u>Parameter</u>	<u>Stabilization Criteria</u>
Conductivity (mS/cm ³)	+/- 5% mS/cm ³
Dissolved Oxygen (mg/L)	+/- 0.5 mg/L
ORP (mV)	+/- 20 mV
pH	± 0.1 unit
Temperature (°C)	+/- 0.1 °C
Turbidity (NTU)	<= 5 NTU

4.2.2 Field Documentation

A field notebook was used to record field-collected data. Data recorded in the field included the following:

- The date, names of sampling crew members, and general weather conditions;
- A description of daily field activities, sample collection information, other pertinent observations, and any deviations from the approved SAP.

4.3 Laboratory Analytical Procedures

Bay West submitted groundwater samples collected at the monitoring wells for analysis of VOCs. Using EPA method 8260D. Samples were collected in laboratory-provided 40 milliliter vials preserved with hydrochloric acid per the approved SAP. In accordance with the programmatic QAPP and updates (Bay West, 2017), Bay West collected field duplicate samples for analysis using identical recovery techniques and treated in an identical manner during storage, transportation, and analysis. Field duplicate samples were collected at a frequency of 1 per 20 samples per matrix per analyte. Since less than twenty groundwater samples were collected per sampling event, one field duplicate was collected for each event.

Chain of custody (CoC) forms were used to track all samples from the time of sampling to the arrival of samples at the laboratory. Field personnel maintained their copy while the other copies were enclosed in a waterproof enclosure within the shipping container. The laboratory, upon receiving the samples, signed the remaining copies and kept one copy for its records.

4.4 Investigation Derived Waste

Soil cuttings generated during drilling activities were thin spread on-site. Groundwater sampling purge water was discharged to the ground surface.

Spent personal protective equipment such as sampling gloves, excess glassware, paper towels, etc. was placed in trash bags and disposed of as municipal solid waste in a trash receptacle at Bay West's office in St. Paul, Minnesota.

5.0 GROUNDWATER SAMPLING RESULTS

Bay West conducted two rounds of groundwater sampling at the five monitoring wells under the approved SAP. The first sampling event was completed on February 1 and 2, 2021. The second sampling event was completed on April 7 and 8, 2021. This section summarizes the results of groundwater elevation measurements and groundwater sample analysis.

5.1 Groundwater Elevations and Flow

Groundwater elevation data was collected during each sampling event prior to purging and sampling the wells for laboratory analysis. Groundwater depth measurements are summarized in **Table 2**.

Depth to groundwater during the sampling events ranged from 20.02 to 24.12 feet below the top of the well casings (approximately 17 to 21 feet below ground surface). Bay West generated groundwater elevation contours based on the depth to water measurements. The groundwater elevation contours are depicted on **Figures 2 and 3**. Based on the groundwater elevation contours, groundwater flow at the Site appears to be to the west-southwest under an approximate hydraulic gradient of 0.00033 to 0.00079 feet per foot. Therefore, the sandy surficial aquifer is likely very transmissive, resulting in a flat water table with only a slight hydraulic gradient to the west-southwest.

5.2 Groundwater Analytical Results

Groundwater samples collected during the February and April 2021 sampling events were submitted to Pace Analytical for analysis of VOCs by EPA method 8260. Laboratory results for groundwater samples collected on the Site were compared to Wis. Admin. Code § NR 140 Enforcement Standards (ES) and Preventive Action Limits (PAL). Results of the groundwater analysis are presented in **Table 3**, and copies of the laboratory analytical reports are included in **Appendix B**.

In February 2021, PCE was detected in all five monitoring wells at concentrations ranging from 0.92 µg/L at MW-01 to 228 µg/L at MW-04. The PCE concentrations exceeded the WDNR ES of 5 µg/L at wells MW-02 (11.9 µg/L), MW-03 (25.2 µg/L), and MW-04 (228 µg/L). **Figure 2** illustrates the inferred extent of PCE in groundwater based on the February 2021 monitoring well data combined with the historical groundwater data collected by others.

In April 2021, PCE was detected in four of the five monitoring wells at concentrations ranging from 0.96 µg/L at MW-05 to 8.7 µg/L at MW-02. The PCE concentrations exceeded the WDNR ES of 5 µg/L at wells MW-02 (8.7 µg/L), MW-03 (5.2 µg/L), and MW-04 (8.3 µg/L). **Figure 3** illustrates the inferred extent of PCE in groundwater based on the April 2021 monitoring well data.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Bay West installed five permanent monitoring wells on and near the Blackhawk Junction site. The well network was intended to provide a clean up-gradient well, a source well, two side-gradient delineation wells, and a down-gradient clean well.

Bay West collected two rounds of groundwater samples from the five wells. Results of the analysis confirmed the presence of PCE in groundwater at concentrations exceeding the WDNR ESs on the Site. The upgradient well (MW-01) and the down-gradient well (MW-05) have both contained PCE as well; however, at concentrations below the ES.

The well network appears to confirm that the PCE plume is migrating off-site to the west-southwest, likely at concentrations exceeding the ES. Based on the data collected to date, there may be a data gap in the well network to the southwest of the Site that may not be capturing the southwest extent of the plume. Also, two rounds of groundwater sampling completed two months apart is not an adequate dataset to evaluate plume stability and degradation.

Based on the data collected to date, Bay West recommends the following:

- Additional groundwater monitoring on a recurring basis (quarterly or semi-annually) to evaluate plume stability and degradation.
- Collection of aquifer characterization parameters to assess the ability of the aquifer to naturally degrade and attenuate the observed PCE. These parameters may include total dissolved solids, dissolved oxygen, total organic carbon, oxidation/reduction potential, pH, etc.
- Collection of groundwater samples from temporary direct-push borings southwest of the Site across East Wisconsin Street to evaluate the southwesterly extent of PCE contamination and confirm the extent and magnitude of the PCE plume.
- Vertical profile groundwater sampling in the aquifer using direct-push sampling methods and temporary wells to assess if chlorinated hydrocarbons have migrated vertically in the aquifer.
- Longer term - potential installation of one or more additional off-site monitoring wells to complete the groundwater monitoring network.

If you have any questions or concerns regarding this Sampling and Analysis Plan, please contact me at rickv@baywest.com.

Prepared by:



Rick Van Allen, PG (MN)
Senior Project Manager

Reviewed by:



Erik Nimlos, PG (MN)
Project Geologist

7.0 REFERENCES

- Ayres Associates, 2009. Limited Contamination Assessment, Blackhawk Dry Cleaners, 700 E. Blackhawk, Prairie du Chien, WI. May.
- Ayres Associates, 2010. Contamination Assessment, Blackhawk Dry Cleaners, 700 E. Blackhawk, Prairie du Chien, WI. March.
- Bay West LLC (Bay West), 2019. Phase I Environmental Site Assessment, Blackhawk Junction, 700 East Blackhawk Avenue, Prairie du Chien, Wisconsin 53821. November.
- Bay West, 2020. Phase II Environmental Site Assessment Report, Blackhawk Junction, 700 East Blackhawk Avenue, Prairie du Chien, Wisconsin 53821. April.
- Bay West, 2020. Limited Site Investigation Sampling and Analysis Plan, Blackhawk Junction, Prairie du Chien, Wisconsin. September.

Figures

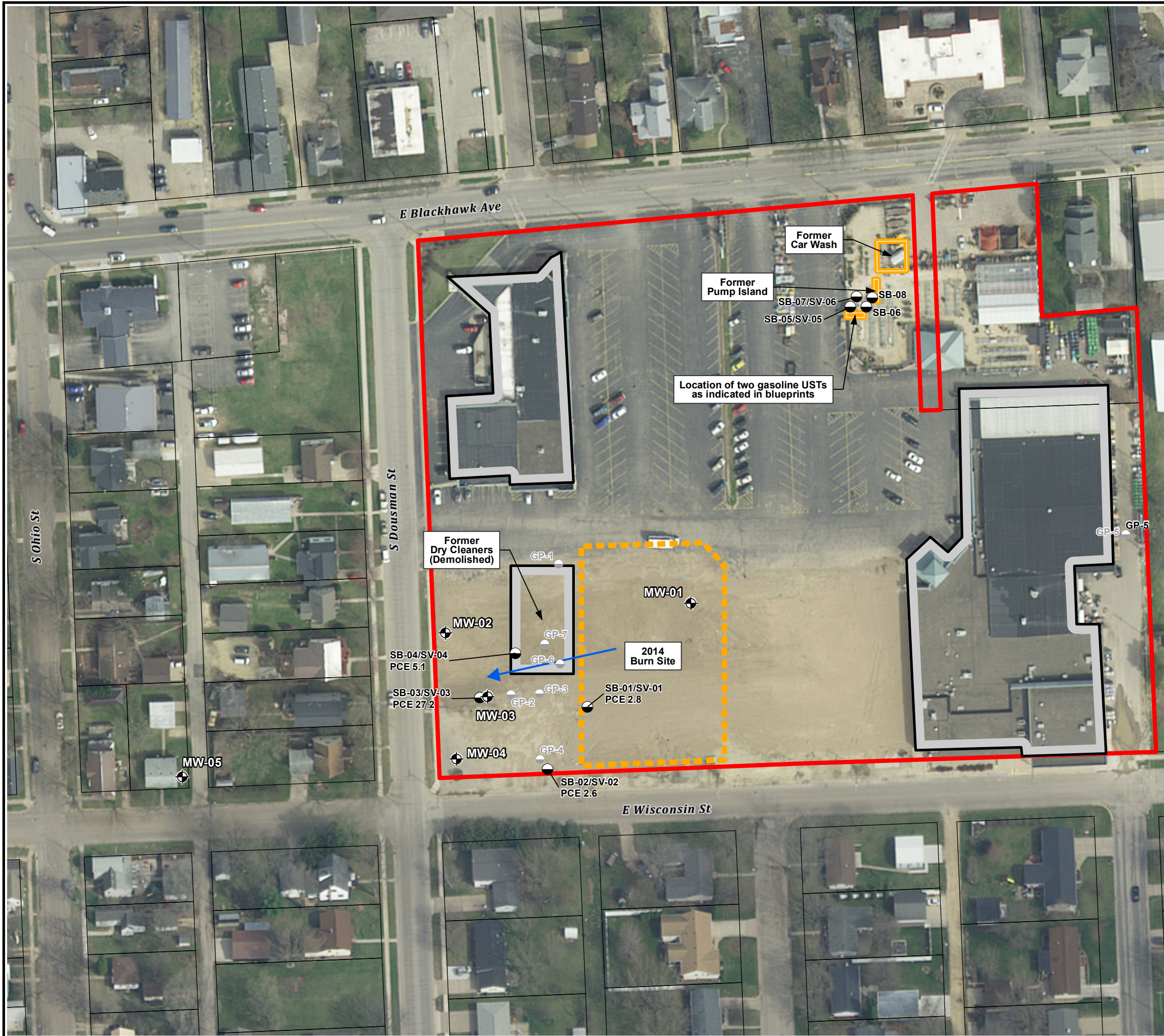
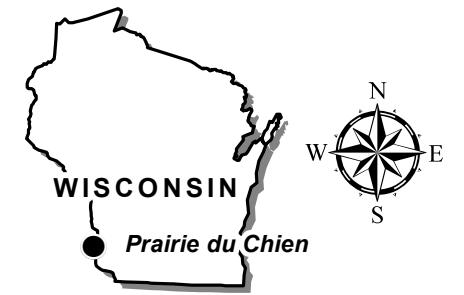


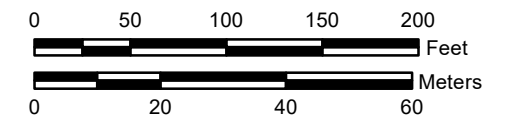
Figure 1 Site Map with Monitoring Well Locations

**Blackhawk Junction
LSI**

700 East Blackhawk Avenue
Prairie du Chien, WI 53821



Map Projection: NAD 1983 UTM Zone 15N, Meters
Basemap: Wisconsin DNR Aerial Imagery, 2015



- Monitoring Well Location
- Completed Soil Boring/Soil Vapor/Groundwater Sample (Bay West 2020)
- Previous Soil Borings (Ayres 2009/2010)
- Assumed Groundwater Flow Direction
- Site Features
- 2014 Burn Site (Approximate)
- Site Boundary
- Parcel Boundaries



Y:\Clients\WISCONSIN_DEPT_OF_NATURAL_RESOURCES\Blackhawk_Junction\MapDocs\J200827\001_LSI\J200827 FIG 2 Groundwater Results (February 2021).mxd

PCE Groundwater Contours

- Approximate
- - - Inferred

PCE Groundwater Plume

- 2-5 µg/L
- 5-25 µg/L
- 25-100 µg/L
- 100-200 µg/L
- >200 µg/L

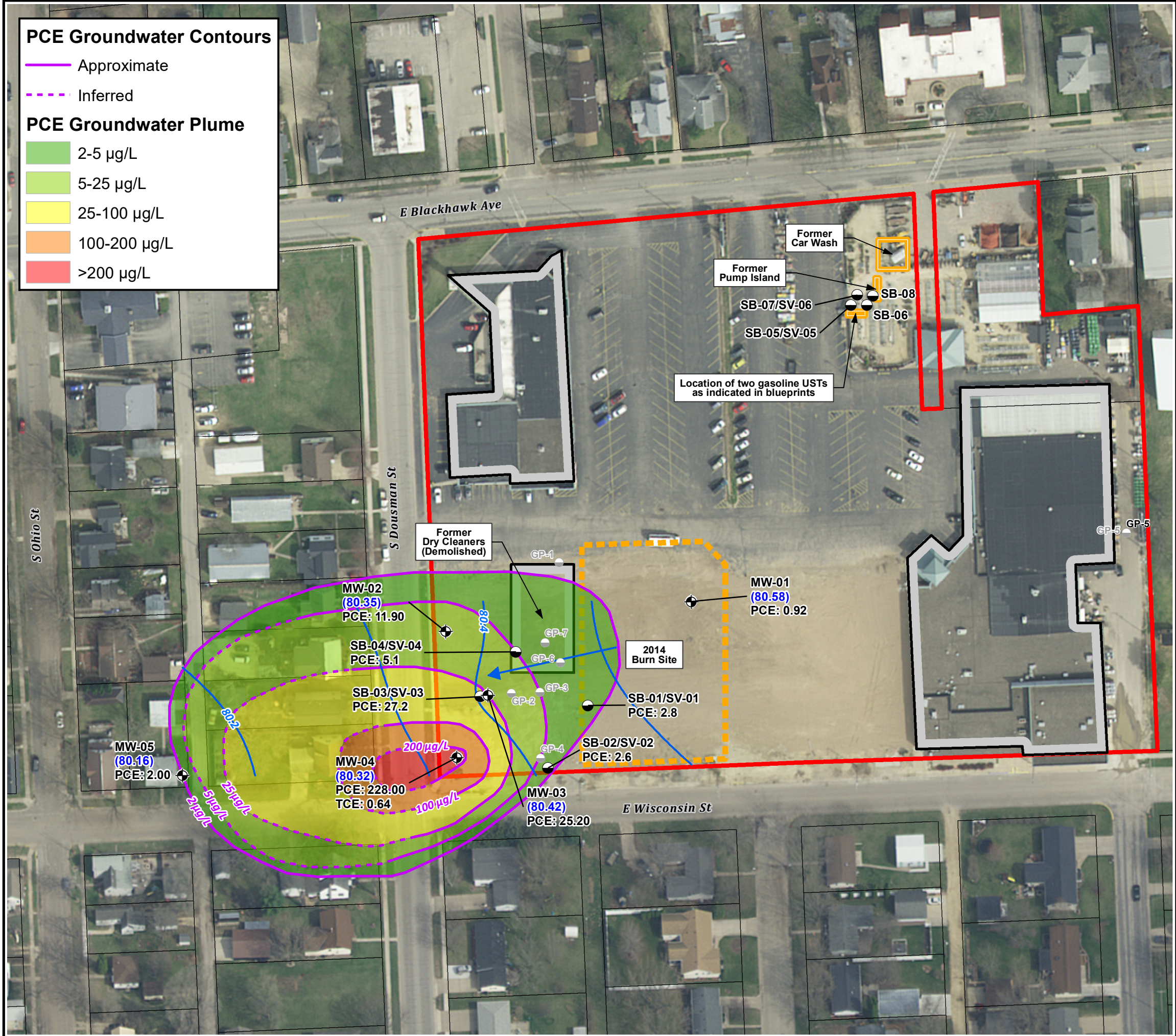
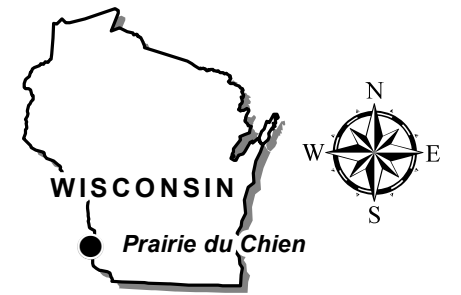


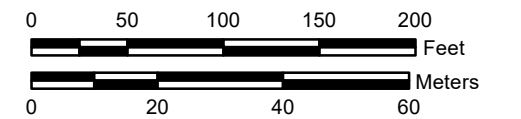
Figure 2
Groundwater Results
(February 2021)

Blackhawk Junction LSI

700 East Blackhawk Avenue
Prairie du Chien, WI 53821



Map Projection: NAD 1983 UTM Zone 15N, Meters
Basemap: Wisconsin DNR Aerial Imagery, 2015



- Monitoring Well Location
- Completed Soil Boring/Soil Vapor/Groundwater Sample (Bay West 2020)
- Previous Soil Borings (Ayres 2009/2010)
- Assumed Groundwater Flow Direction
- (80.58) Groundwater Elevation (February 2021)
- Groundwater Contour Elevation Line (ft)
- Site Features
- 2014 Burn Site (Approximate)
- Site Boundary
- Parcel Boundaries

Note:

PCE/TCE Results are shown in µg/L



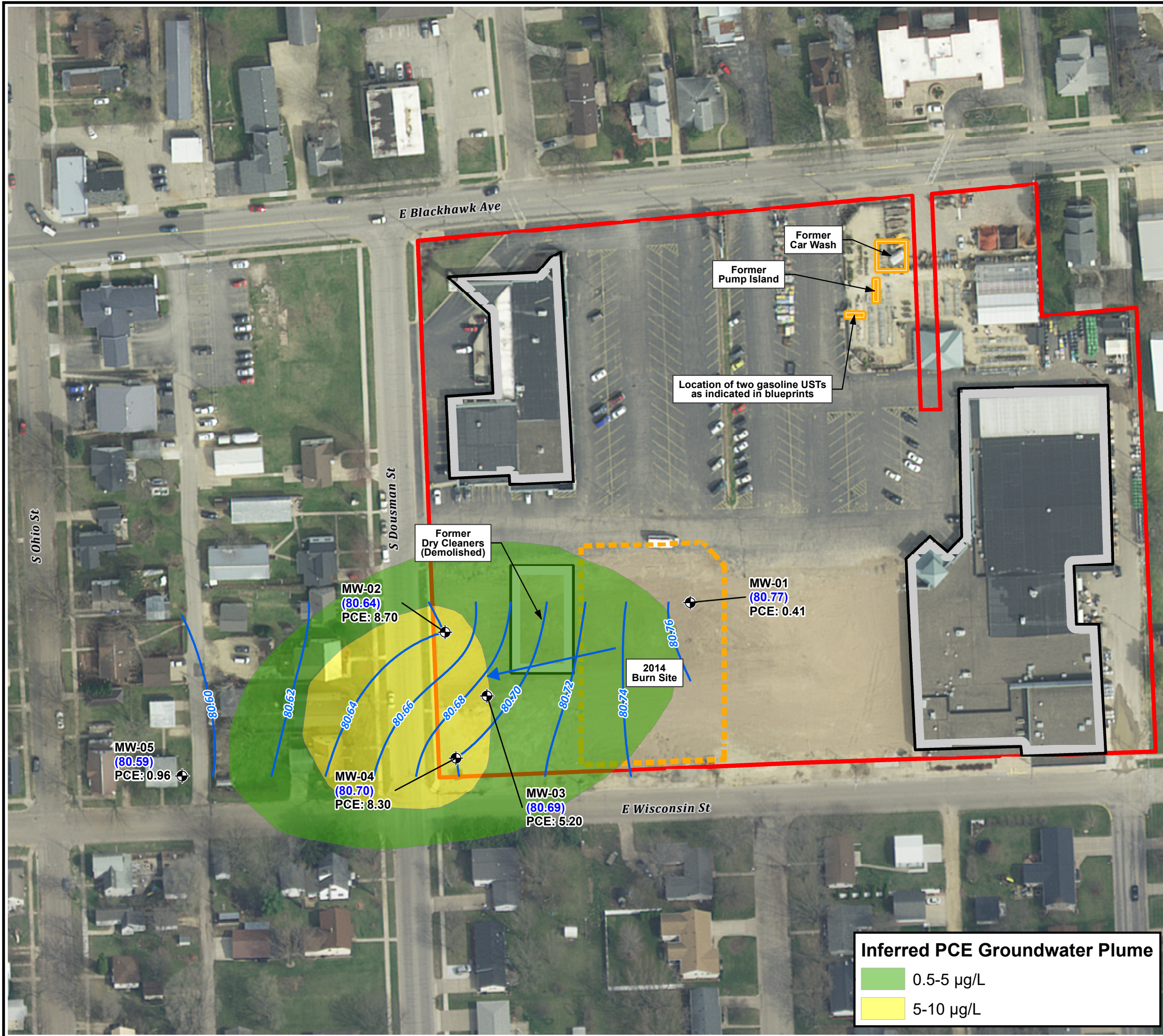
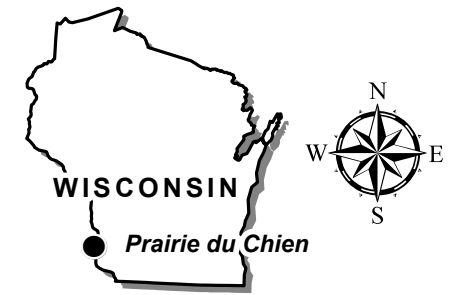


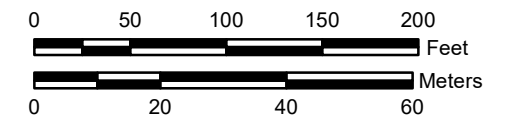
Figure 3
Groundwater Results
(April 2021)

Blackhawk Junction
LSI

700 East Blackhawk Avenue
Prairie du Chien, WI 53821



Map Projection: NAD 1983 UTM Zone 15N, Meters
Basemap: Wisconsin DNR Aerial Imagery, 2015



- Monitoring Well Location
- Completed Soil Boring/Soil Vapor/Groundwater Sample (Bay West 2020)
- Previous Soil Borings (Ayres 2009/2010)
- Assumed Groundwater Flow Direction
- (80.58) Groundwater Elevation (February 2021)
- Groundwater Contour Elevation Line (ft)
- Site Features
- 2014 Burn Site (Approximate)
- Site Boundary
- Parcel Boundaries

Note:
PCE/TCE Results are shown in µg/L

Inferred PCE Groundwater Plume

- 0.5-5 µg/L
- 5-10 µg/L



Tables

TABLE 1
Well Construction Summary
Blackhawk Junction

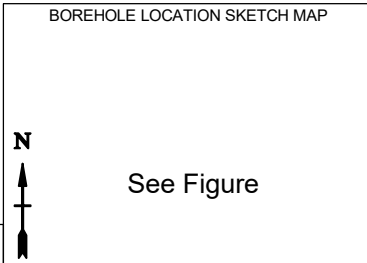
MW ID	Northing	Easting	DEM Elevation (Ft)	Relative Survey Elevation [Ft]	Elevation Source	Top of Screen [ft]	Bottom of Screen [ft]	Collection Type
MW-01	4768162.49	651717.81	638	103.87	TOC	86.37	72.52	Laser Level
MW-02	4768150.59	651637.06	641	104.14	TOC	88.14	73.73	Laser Level
MW-03	4768129.78	651655.43	639	104.54	TOC	87.04	71.80	Laser Level
MW-04	4768107.89	651642.14	638	103.55	TOC	86.05	71.29	Laser Level
MW-05	4768105.43	651556.35	640	100.61	TOC	85.61	70.86	Laser Level

TABLE 2
Groundwater Elevations
Blackhawk Junction

MW_ID	Relative Survey Elevation [Ft]	Elevation Source	Date	Depth to Water [ft]	Groundwater Elevation [ft]	Top of Screen [ft]	Bottom of Screen [ft]
MW-01	103.87	TOC	2/1/2021	23.29	80.58	86.37	72.52
			4/7/2021	23.10	80.77		
MW-02	104.14	TOC	2/1/2021	23.79	80.35	88.14	73.73
			4/8/2021	23.50	80.64		
MW-03	104.54	TOC	2/2/2021	24.12	80.42	87.04	71.80
			4/8/2021	23.85	80.69		
MW-04	103.55	TOC	2/2/2021	23.23	80.32	86.05	71.29
			4/8/2021	22.85	80.70		
MW-05	100.61	TOC	2/2/2021	20.45	80.16	85.61	70.86
			4/8/2021	20.02	80.59		

TOC: Top of casing elevation (relative)

Appendix A
Boring Logs

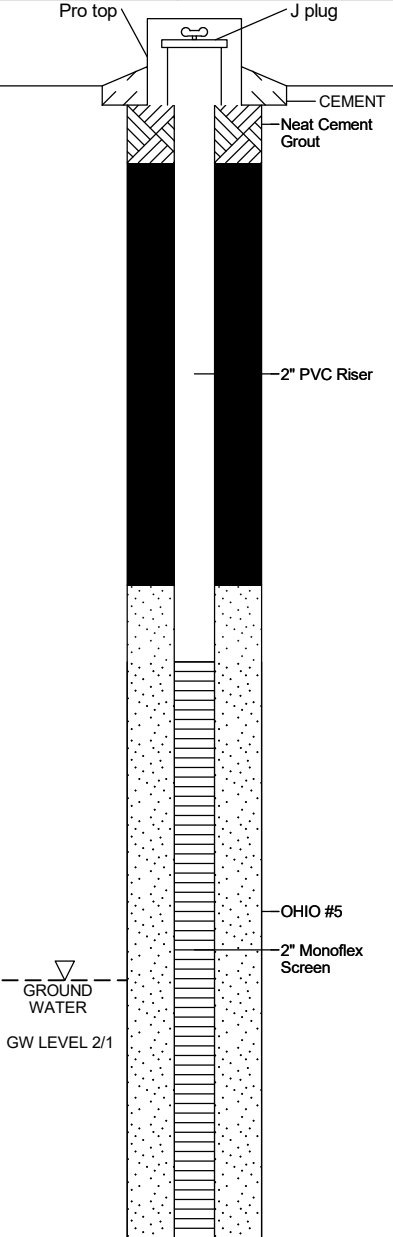


WELL CONSTRUCTION LOG

BOREHOLE NO. MW-01		PROJECT NO. / NAME J200827 / Blackhawk Junction		LOCATION Prairie du Chein, WI	
APPROVED BY Rick van Allen		DRILLING CONTRACTOR / DRILLER Badger State Drilling / Kevin Duerst		LOGGED BY Zach Mason	
DRILLING EQUIPMENT / METHOD DT 50 / Hollow Stem Auger		SIZE / TYPE OF BIT 4.25		SAMPLING METHOD Split Spoon	
START-FINISH DATE 1/13/21-1/13/21		CASING MAT. / DIA. PVC / 2in		SCREEN: TYPE Monoflex MAT PVC	
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOTAL LENGTH 15	
(FT. ABOVE Site Reference)		103.87		DIA. 2in SLOT SIZE 10-slot	
		TOP & BOTTOM SCREEN		GW SURFACE	
		88.87/73.87		80.58	
				GW DATE	
				2/1	

Depth, ft bgs	Graphic Log	Visual Description	Analytical Sample Number	Interval	OVA Headspace Values (ppm)
1		Silty sand, fine grained, OM, brown, poorly graded, dry, no odor			
2		Silty sand, fine grained, poorly graded, trace gravel, SR dark brown			
3		Lean clay, trace silt, low plasticity, dark brown, firm, dry, moderate cementation			
4		Sandy clay with trace gravel, SR, low plasticity, dark brown, weak cementation, dry	5	5	
5		Sand, coarse grained with trace gravel, SR well graded, moist			
6					
7					
8					
9		Sand, coarse grained with trace gravel, SR, Well graded, moist, no odor			
10			10	10	
11					
12					
13					
14					
15			15	15	
16					
17		Sand, coarse grained with trace gravel, SR, well graded, moist			
18					
19		Sand, coarse grained with trace gravel, SR, well graded, wet. Water at 19.5ft			
20			20	20	
21					
22					
23					
24					
25		No recovery, sand slough in boring			
26					
27					
28					
29					
30					

WELL CONSTRUCTION LOG WDNR_BLACKHAWKJUNCTION_J200784.GPJ ENV LOG #1 GDT 2/28/21

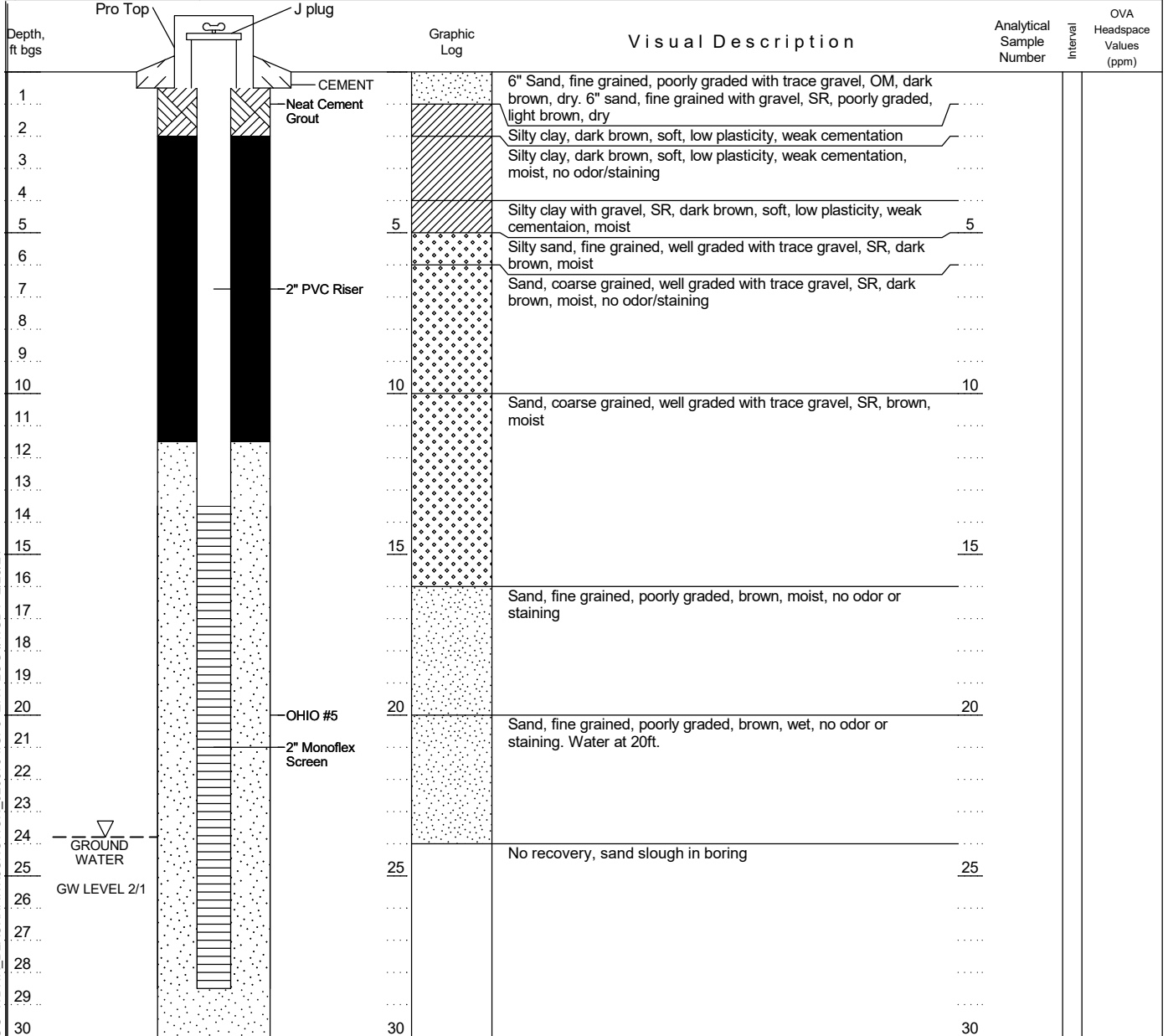


WELL CONSTRUCTION LOG

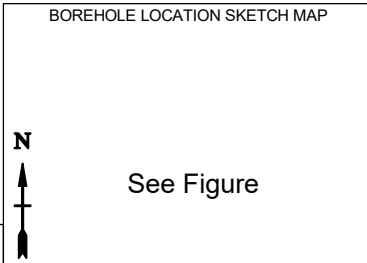


See Figure

BOREHOLE NO. MW-02		WELL CONSTRUCTION LOG	
PROJECT NO. / NAME J200827 / Blackhawk Junction			
APPROVED BY Rick van Allen		LOGGED BY Zach Mason	
DRILLING CONTRACTOR / DRILLER Badger State Drilling / Kevin Duerst		DRILLING EQUIPMENT / METHOD DT 50 / Hollow Stem Auger	
CASING MAT. / DIA. PVC / 2in		SCREEN: TYPE Monoflex MAT PVC	
ELEVATION OF: (FT. ABOVE Site Reference)		TOTAL LENGTH 15	
GROUND SURFACE		DIA. 2in	
TOP OF WELL CASING		SLOT SIZE 10-slot	
TOP & BOTTOM SCREEN		SIZE / TYPE OF BIT 4.25	
GW SURFACE		SAMPLING METHOD Split Spoon	
GW DATE 2/1		START-FINISH DATE 1/13/21-1/13/21	



WELL CONSTRUCTION LOG WDNR_BLACKHAWKJUNCTION_J200784.GPJ ENV LOG #1 GDT 2/28/21

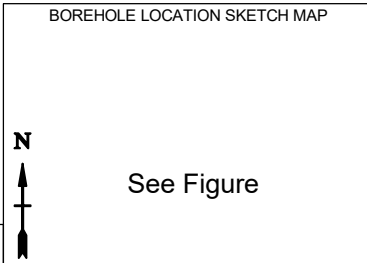


WELL CONSTRUCTION LOG

BOREHOLE NO. MW-03		LOCATION	
PROJECT NO. / NAME J200827 / Blackhawk Junction		Prairie du Chein, WI	
APPROVED BY Rick van Allen		LOGGED BY Zach Mason	
DRILLING CONTRACTOR / DRILLER Badger State Drilling / Kevin Duerst		SIZE / TYPE OF BIT 4.25	SAMPLING METHOD Split Spoon
DRILLING EQUIPMENT / METHOD DT 50 / Hollow Stem Auger		START-FINISH DATE 1/14/21-1/14/21	
CASING MAT. / DIA. PVC / 2in	SCREEN: TYPE Monoflex	MAT PVC	TOTAL LENGTH 15
ELEVATION OF: (FT. ABOVE Site Reference)	GROUND SURFACE 104.54	TOP OF WELL CASING 89.54/74.54	DIA. 2in
		TOP & BOTTOM SCREEN 80.42	SLOT SIZE 10-slot
		GW SURFACE 2/1	GW DATE 2/1

Depth, ft bgs	Graphic Log	Visual Description	Analytical Sample Number	Interval	OVA Headspace Values (ppm)
1	Pro top, J plug, CEMENT, Neat Cement Grout	4" silty sand, OM, soft, dark brown, weak cementation, dry. Silty clay with trace gravel, dark brown, firm, moderate cementation, moist			
2					
3		Silty clay, dark brown, firm, moderate cementation, moist, no odor/staining			
4					
5		Silty clay with trace gravel, dark brown, soft, weak cementation, moist, no odor/staining		5	
6					
7					
8	2" PVC Riser				
9					
10		Sand, coarse grained, well graded with trace gravel, SR, brown, moist, no odor/staining		10	
11					
12					
13					
14					
15		Sand, coarse grained, trace gravel, SR, well graded, moist		15	
16					
17		Sand, coarse grained, poorly graded, brown moist, no odor/staining			
18					
19					
20				20	
21					
22	OHIO #5	Sand, coarse grained, poorly graded, brown, wet, no odor/staining. Water at 21ft			
23	2" Monoflex Screen				
24	GROUND WATER				
25	GW LEVEL 2/1			25	
26					
27		No recovery 26-30ft. Sand slough in boring			
28					
29					
30				30	

WELL CONSTRUCTION LOG WDNR_BLACKHAWKJUNCTION_J200784.GPJ ENV LOG #1 GDT 2/28/21

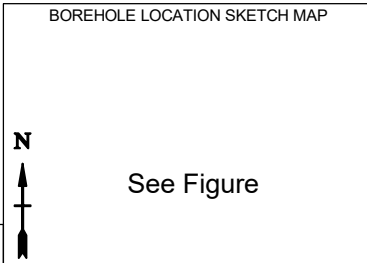


WELL CONSTRUCTION LOG

BOREHOLE NO. MW-04		PROJECT NO. / NAME J200827 / Blackhawk Junction		LOCATION Prairie du Chein, WI	
APPROVED BY Rick van Allen		DRILLING CONTRACTOR / DRILLER Badger State Drilling / Kevin Duerst		LOGGED BY Zach Mason	
DRILLING EQUIPMENT / METHOD DT 50 / Hollow Stem Auger		SIZE / TYPE OF BIT 4.25		SAMPLING METHOD Split Spoon	
START-FINISH DATE 1/15/21-1/15/21		CASING MAT. / DIA. PVC / 2in		SCREEN: TYPE Monoflex MAT PVC	
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING		TOTAL LENGTH 15	
(FT. ABOVE Site Reference)		103.55		DIA. 2in SLOT SIZE 10-slot	
TOP & BOTTOM SCREEN		88.55/73.55		GW SURFACE	
				80.32	
				GW DATE	
				2/1	

Depth, ft bgs	Graphic Log	Visual Description	Analytical Sample Number	Interval	OVA Headspace Values (ppm)
1		4" asphalt, sandy gravel, brown, dry			
2					
3		Silty clay with trace gravel, dark brown, soft, weak cementation, moist, no odor			
4		Silty clay with gravel, SR, dark brown, soft, low plasticity			
5		Sand, coarse grained, well graded, brown, moist, no odor or staining		5	
6					
7		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
8		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
9		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
10		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining		10	
11		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
12		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
13		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
14		Sand, coarse grained with trace gravel, well graded, SR, brown, moist, no odor/staining			
15		Sand, coarse grained, well graded with trace gravel, SR, brown, moist, no odor or staining		15	
16		Sand, coarse grained, poorly graded, brown, moist no odor/staining			
17		Sand, coarse grained, poorly graded, brown, moist no odor/staining			
18		Sand, coarse grained, poorly graded, brown, moist no odor/staining			
19		Sand, coarse grained, poorly graded, brown, moist no odor/staining			
20		Sand, coarse grained, poorly graded, brown, wet. Water at 19ft		20	
21					
22					
23		No recovery 22-30, sand slough in boring.			
24					
25				25	
26					
27					
28					
29					
30				30	

WELL CONSTRUCTION LOG WDNR_BLACKHAWKJUNCTION_J200784.GPJ ENV LOG #1 GDT 2/28/21



WELL CONSTRUCTION LOG

BOREHOLE NO. MW-05		PROJECT NO. / NAME J200827 / Blackhawk Junction		LOCATION Prairie du Chein, WI	
APPROVED BY Rick van Allen		DRILLING CONTRACTOR / DRILLER Badger State Drilling / Kevin Duerst		LOGGED BY Zach Mason	
DRILLING EQUIPMENT / METHOD DT 50 / Hollow Stem Auger		SIZE / TYPE OF BIT 4.25		SAMPLING METHOD Split Spoon	
START-FINISH DATE 1/14/21-1/14/21		CASING MAT. / DIA. PVC / 2in		SCREEN: TYPE Monoflex MAT PVC	
ELEVATION OF: GROUND SURFACE		TOP OF WELL CASING 100.61		TOTAL LENGTH 15	
(FT. ABOVE Site Reference)		TOP & BOTTOM SCREEN 85.61/70.61		DIA. 2in	
		GW SURFACE 80.16		SLOT SIZE 10-slot	
		GW DATE 2/1			

Depth, ft bgs	Flushmount	J Plug	Cement	Neat Cement Grout	2" PVC Riser	OHIO #5	2" Monoflex Screen	Graphic Log	Visual Description	Analytical Sample Number	Interval	OVA Headspace Values (ppm)
1								8" topsoil, om, dark brown, no odor. 10" silty clay with gravel, SA, dark brown, weak cementation, firm, low plasticity. 6" silty sand with trace gravel, dark brown, dry				
2								Silty sand with trace gravel, SR, dark brown, soft, dry, no odor				
3								Sand, coarse grained with trace gravel, SR, well graded, brown, moist, no odor/staining				
4								Sand, coarse grained with trace gravel, sub rounded, brown, moist, no odor or staining				
5								Sand, coarse grained w/ trace gravel, SR, brown, moist, no odor/staining				
6								No recovery, rock stuck in spoon shoe				
7								Sand, coarse grained with trace gravel, SR, well graded, brown, wet, no odor/staining. Water at 21ft.				
8								No recovery, sand slough in boring				
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
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29												
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WELL CONSTRUCTION LOG WDNR_BLACKHAWKJUNCTION_J200784.GPJ ENV LOG #1 GDT 2/28/21



Appendix B
Laboratory Reports

February 18, 2021

Rick VanAllen
Bay West, Inc.
5 Empire Drive
Saint Paul, MN 55103

RE: Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

Dear Rick VanAllen:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colin Lynch
colin.lynch@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Ryan Riley, Bay West LLC
Jeff Smith, Pace Analytical Services, Inc
Gerrit Vanderwaal



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10546875001	MW-01	Water	02/01/21 14:00	02/03/21 17:41
10546875002	MW-02	Water	02/01/21 15:25	02/03/21 17:41
10546875003	MW-03	Water	02/02/21 10:10	02/03/21 17:41
10546875004	MW-04	Water	02/02/21 12:10	02/03/21 17:41
10546875005	MW-05	Water	02/02/21 14:30	02/03/21 17:41
10546875006	MW-04-D	Water	02/02/21 12:40	02/03/21 17:41
10546875007	TRIP BLANK	Water	02/01/21 12:00	02/03/21 17:41
10546875008	FIELD BLANK	Water	02/02/21 11:30	02/03/21 17:41

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10546875001	MW-01	EPA 8260D	MM3	72
10546875002	MW-02	EPA 8260D	MM3	72
10546875003	MW-03	EPA 8260D	MM3	72
10546875004	MW-04	EPA 8260D	MM3	72
10546875005	MW-05	EPA 8260D	MM3	72
10546875006	MW-04-D	EPA 8260D	MM3	72
10546875007	TRIP BLANK	EPA 8260D	MM3	72
10546875008	FIELD BLANK	EPA 8260D	NMB	72

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Method: EPA 8260D

Description: 8260D VOC

Client: Bay West LLC

Date: February 18, 2021

General Information:

8 samples were analyzed for EPA 8260D by Pace Analytical Services Minneapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 724028

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 3859443)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
- MW-01 (Lab ID: 10546875001)
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
- MW-02 (Lab ID: 10546875002)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
- MW-03 (Lab ID: 10546875003)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
- MW-04 (Lab ID: 10546875004)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

Method: EPA 8260D
Description: 8260D VOC
Client: Bay West LLC
Date: February 18, 2021

QC Batch: 724028

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- 1,3-Dichloropropane
- Allyl chloride
- Bromoform
- Diethyl ether (Ethyl ether)
- Methylene Chloride
- trans-1,2-Dichloroethene
- MW-04-D (Lab ID: 10546875006)
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
- MW-05 (Lab ID: 10546875005)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
- TRIP BLANK (Lab ID: 10546875007)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- LCS (Lab ID: 3859444)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene
- MS (Lab ID: 3861407)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Method: EPA 8260D

Description: 8260D VOC

Client: Bay West LLC

Date: February 18, 2021

QC Batch: 724028

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- MSD (Lab ID: 3861408)
 - 1,3-Dichloropropane
 - Allyl chloride
 - Bromoform
 - Diethyl ether (Ethyl ether)
 - Methylene Chloride
 - trans-1,2-Dichloroethene

QC Batch: 724976

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- LCS (Lab ID: 3864170)
 - Bromomethane
- MS (Lab ID: 3867464)
 - Bromomethane
- MSD (Lab ID: 3867465)
 - Bromomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 724028

1M: This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 156%. Results may be biased high.

- BLANK (Lab ID: 3859443)
 - Bromomethane
- LCS (Lab ID: 3859444)
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Method: EPA 8260D

Description: 8260D VOC

Client: Bay West LLC

Date: February 18, 2021

Analyte Comments:

QC Batch: 724028

1M: This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 156%. Results may be biased high.

- MS (Lab ID: 3861407)
 - Bromomethane
- MSD (Lab ID: 3861408)
 - Bromomethane
- MW-01 (Lab ID: 10546875001)
 - Bromomethane
- MW-02 (Lab ID: 10546875002)
 - Bromomethane
- MW-03 (Lab ID: 10546875003)
 - Bromomethane
- MW-04 (Lab ID: 10546875004)
 - Bromomethane
- MW-04-D (Lab ID: 10546875006)
 - Bromomethane
- MW-05 (Lab ID: 10546875005)
 - Bromomethane
- TRIP BLANK (Lab ID: 10546875007)
 - Bromomethane

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-01 **Lab ID: 10546875001** Collected: 02/01/21 14:00 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 14:58	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 14:58	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 14:58	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 14:58	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 14:58	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 14:58	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 14:58	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 14:58	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 14:58	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 14:58	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 14:58	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 14:58	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 14:58	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 14:58	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 14:58	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 14:58	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 14:58	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 14:58	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 14:58	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 14:58	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 14:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 14:58	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 14:58	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 14:58	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 14:58	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 14:58	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 14:58	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 14:58	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 14:58	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 14:58	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 14:58	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 14:58	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 14:58	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 14:58	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 14:58	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 14:58	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 14:58	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 14:58	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 14:58	10061-02-6	v2
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 14:58	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 14:58	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 14:58	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 14:58	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 14:58	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 14:58	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-01 **Lab ID: 10546875001** Collected: 02/01/21 14:00 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 14:58	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 14:58	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 14:58	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 14:58	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 14:58	79-34-5	
Tetrachloroethene	0.92	ug/L	0.58	0.17	1		02/05/21 14:58	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 14:58	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 14:58	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 14:58	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 14:58	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 14:58	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 14:58	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 14:58	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 14:58	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 14:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 14:58	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 14:58	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 14:58	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 14:58	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 14:58	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 14:58	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 14:58	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 14:58	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		02/05/21 14:58	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		02/05/21 14:58	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-02 **Lab ID: 10546875002** Collected: 02/01/21 15:25 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 15:15	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 15:15	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 15:15	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 15:15	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 15:15	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 15:15	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 15:15	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 15:15	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 15:15	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 15:15	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 15:15	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 15:15	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 15:15	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 15:15	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 15:15	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 15:15	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 15:15	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 15:15	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 15:15	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 15:15	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 15:15	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 15:15	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 15:15	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 15:15	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 15:15	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 15:15	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 15:15	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 15:15	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 15:15	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 15:15	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 15:15	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 15:15	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 15:15	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 15:15	142-28-9	v2
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:15	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 15:15	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 15:15	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 15:15	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 15:15	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 15:15	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 15:15	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 15:15	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 15:15	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 15:15	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-02 **Lab ID: 10546875002** Collected: 02/01/21 15:25 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 15:15	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 15:15	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 15:15	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 15:15	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 15:15	79-34-5	
Tetrachloroethene	11.9	ug/L	0.58	0.17	1		02/05/21 15:15	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 15:15	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:15	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:15	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 15:15	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 15:15	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 15:15	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 15:15	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 15:15	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 15:15	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 15:15	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:15	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:15	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 15:15	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 15:15	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 15:15	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 15:15	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	71-125		1		02/05/21 15:15	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1		02/05/21 15:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		02/05/21 15:15	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-03 Lab ID: 10546875003 Collected: 02/02/21 10:10 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 15:32	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 15:32	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 15:32	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 15:32	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 15:32	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 15:32	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 15:32	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 15:32	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 15:32	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 15:32	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 15:32	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 15:32	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 15:32	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 15:32	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 15:32	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 15:32	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 15:32	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 15:32	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 15:32	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 15:32	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 15:32	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 15:32	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 15:32	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 15:32	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 15:32	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 15:32	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 15:32	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 15:32	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 15:32	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 15:32	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 15:32	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 15:32	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 15:32	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 15:32	142-28-9	v2
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:32	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 15:32	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 15:32	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 15:32	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 15:32	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 15:32	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 15:32	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 15:32	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 15:32	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 15:32	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-03 **Lab ID: 10546875003** Collected: 02/02/21 10:10 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 15:32	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 15:32	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 15:32	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 15:32	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 15:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 15:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 15:32	79-34-5	
Tetrachloroethene	25.2	ug/L	0.58	0.17	1		02/05/21 15:32	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 15:32	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:32	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:32	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 15:32	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 15:32	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 15:32	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 15:32	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 15:32	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 15:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 15:32	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:32	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:32	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 15:32	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 15:32	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 15:32	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 15:32	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 15:32	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		02/05/21 15:32	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		02/05/21 15:32	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-04 Lab ID: 10546875004 Collected: 02/02/21 12:10 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 15:49	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 15:49	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 15:49	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 15:49	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 15:49	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 15:49	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 15:49	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 15:49	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 15:49	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 15:49	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 15:49	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 15:49	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 15:49	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 15:49	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 15:49	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 15:49	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 15:49	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 15:49	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 15:49	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 15:49	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 15:49	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 15:49	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 15:49	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 15:49	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 15:49	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 15:49	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 15:49	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 15:49	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 15:49	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 15:49	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 15:49	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 15:49	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 15:49	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 15:49	142-28-9	v2
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 15:49	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 15:49	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 15:49	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 15:49	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 15:49	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 15:49	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 15:49	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 15:49	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 15:49	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 15:49	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-04 **Lab ID: 10546875004** Collected: 02/02/21 12:10 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 15:49	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 15:49	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 15:49	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 15:49	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 15:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 15:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 15:49	79-34-5	
Tetrachloroethene	228	ug/L	0.58	0.17	1		02/05/21 15:49	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 15:49	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:49	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:49	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 15:49	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 15:49	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 15:49	79-00-5	
Trichloroethene	0.64	ug/L	0.50	0.15	1		02/05/21 15:49	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 15:49	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 15:49	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 15:49	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 15:49	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 15:49	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 15:49	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 15:49	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 15:49	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 15:49	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 15:49	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		02/05/21 15:49	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		02/05/21 15:49	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-05 Lab ID: 10546875005 Collected: 02/02/21 14:30 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 16:06	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 16:06	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 16:06	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 16:06	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 16:06	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 16:06	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 16:06	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 16:06	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 16:06	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 16:06	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 16:06	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 16:06	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 16:06	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 16:06	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 16:06	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 16:06	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 16:06	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 16:06	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 16:06	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 16:06	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 16:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 16:06	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 16:06	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 16:06	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 16:06	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 16:06	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 16:06	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 16:06	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 16:06	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 16:06	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 16:06	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 16:06	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 16:06	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 16:06	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 16:06	142-28-9	v2
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 16:06	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 16:06	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 16:06	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 16:06	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 16:06	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 16:06	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 16:06	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 16:06	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 16:06	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 16:06	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-05 **Lab ID: 10546875005** Collected: 02/02/21 14:30 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 16:06	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 16:06	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 16:06	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 16:06	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 16:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 16:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 16:06	79-34-5	
Tetrachloroethene	2.0	ug/L	0.58	0.17	1		02/05/21 16:06	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 16:06	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 16:06	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 16:06	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 16:06	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 16:06	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 16:06	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 16:06	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 16:06	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 16:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 16:06	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 16:06	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 16:06	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 16:06	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 16:06	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 16:06	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 16:06	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 16:06	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		02/05/21 16:06	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		02/05/21 16:06	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-04-D Lab ID: 10546875006 Collected: 02/02/21 12:40 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 16:23	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 16:23	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 16:23	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 16:23	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 16:23	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 16:23	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 16:23	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 16:23	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 16:23	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 16:23	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 16:23	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 16:23	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 16:23	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 16:23	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 16:23	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 16:23	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 16:23	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 16:23	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 16:23	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 16:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 16:23	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 16:23	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 16:23	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 16:23	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 16:23	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 16:23	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 16:23	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 16:23	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 16:23	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 16:23	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 16:23	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 16:23	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 16:23	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 16:23	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 16:23	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 16:23	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 16:23	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 16:23	10061-02-6	v2
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 16:23	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 16:23	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 16:23	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 16:23	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 16:23	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 16:23	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: MW-04-D **Lab ID: 10546875006** Collected: 02/02/21 12:40 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 16:23	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 16:23	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 16:23	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 16:23	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 16:23	79-34-5	
Tetrachloroethene	222	ug/L	0.58	0.17	1		02/05/21 16:23	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 16:23	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 16:23	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 16:23	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 16:23	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 16:23	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 16:23	79-00-5	
Trichloroethene	0.57	ug/L	0.50	0.15	1		02/05/21 16:23	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 16:23	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 16:23	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 16:23	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 16:23	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 16:23	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 16:23	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 16:23	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 16:23	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 16:23	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%	71-125		1		02/05/21 16:23	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1		02/05/21 16:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		02/05/21 16:23	460-00-4	

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: TRIP BLANK **Lab ID: 10546875007** Collected: 02/01/21 12:00 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	<2.5	ug/L	8.4	2.5	1		02/05/21 13:33	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/05/21 13:33	107-05-1	v2
Benzene	<0.12	ug/L	0.40	0.12	1		02/05/21 13:33	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/05/21 13:33	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/05/21 13:33	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/05/21 13:33	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/05/21 13:33	75-25-2	v2
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/05/21 13:33	74-83-9	1M
2-Butanone (MEK)	<0.88	ug/L	2.9	0.88	1		02/05/21 13:33	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/05/21 13:33	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/05/21 13:33	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/05/21 13:33	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/05/21 13:33	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/05/21 13:33	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/05/21 13:33	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/05/21 13:33	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/05/21 13:33	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/05/21 13:33	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/05/21 13:33	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/05/21 13:33	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/05/21 13:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/05/21 13:33	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/05/21 13:33	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/05/21 13:33	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/05/21 13:33	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/05/21 13:33	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/05/21 13:33	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/05/21 13:33	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/05/21 13:33	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/05/21 13:33	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/05/21 13:33	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/05/21 13:33	156-60-5	v2
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/05/21 13:33	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/05/21 13:33	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/05/21 13:33	142-28-9	v2
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/05/21 13:33	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/05/21 13:33	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/05/21 13:33	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/05/21 13:33	10061-02-6	
Diethyl ether (Ethyl ether)	<0.18	ug/L	0.58	0.18	1		02/05/21 13:33	60-29-7	v2
Ethylbenzene	<0.075	ug/L	0.25	0.075	1		02/05/21 13:33	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/05/21 13:33	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/05/21 13:33	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/05/21 13:33	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/05/21 13:33	75-09-2	v2

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: TRIP BLANK **Lab ID: 10546875007** Collected: 02/01/21 12:00 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	<0.54	ug/L	1.8	0.54	1		02/05/21 13:33	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/05/21 13:33	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/05/21 13:33	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/05/21 13:33	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/05/21 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/05/21 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/05/21 13:33	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		02/05/21 13:33	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/05/21 13:33	109-99-9	
Toluene	<0.12	ug/L	0.41	0.12	1		02/05/21 13:33	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 13:33	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/05/21 13:33	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/05/21 13:33	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/05/21 13:33	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/05/21 13:33	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/05/21 13:33	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/05/21 13:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/05/21 13:33	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/05/21 13:33	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/05/21 13:33	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/05/21 13:33	75-01-4	
Xylene (Total)	<0.29	ug/L	0.96	0.29	1		02/05/21 13:33	1330-20-7	
m&p-Xylene	<0.29	ug/L	0.96	0.29	1		02/05/21 13:33	179601-23-1	
o-Xylene	<0.15	ug/L	0.50	0.15	1		02/05/21 13:33	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%	71-125		1		02/05/21 13:33	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1		02/05/21 13:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125		1		02/05/21 13:33	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: FIELD BLANK **Lab ID: 10546875008** Collected: 02/02/21 11:30 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
Acetone	14.3	ug/L	8.4	2.5	1		02/12/21 00:45	67-64-1	
Allyl chloride	<0.27	ug/L	0.90	0.27	1		02/12/21 00:45	107-05-1	
Benzene	<0.12	ug/L	0.40	0.12	1		02/12/21 00:45	71-43-2	
Bromobenzene	<0.13	ug/L	0.44	0.13	1		02/12/21 00:45	108-86-1	
Bromochloromethane	<0.36	ug/L	1.2	0.36	1		02/12/21 00:45	74-97-5	
Bromodichloromethane	<0.11	ug/L	0.38	0.11	1		02/12/21 00:45	75-27-4	
Bromoform	<0.27	ug/L	0.90	0.27	1		02/12/21 00:45	75-25-2	
Bromomethane	<0.63	ug/L	2.1	0.63	1		02/12/21 00:45	74-83-9	
2-Butanone (MEK)	1.1J	ug/L	2.9	0.88	1		02/12/21 00:45	78-93-3	
n-Butylbenzene	<0.16	ug/L	0.52	0.16	1		02/12/21 00:45	104-51-8	
sec-Butylbenzene	<0.15	ug/L	0.49	0.15	1		02/12/21 00:45	135-98-8	
tert-Butylbenzene	<0.13	ug/L	0.43	0.13	1		02/12/21 00:45	98-06-6	
Carbon tetrachloride	<0.17	ug/L	0.56	0.17	1		02/12/21 00:45	56-23-5	
Chlorobenzene	<0.076	ug/L	0.25	0.076	1		02/12/21 00:45	108-90-7	
Chloroethane	<0.42	ug/L	1.4	0.42	1		02/12/21 00:45	75-00-3	
Chloroform	<0.48	ug/L	1.6	0.48	1		02/12/21 00:45	67-66-3	
Chloromethane	<0.15	ug/L	0.49	0.15	1		02/12/21 00:45	74-87-3	
2-Chlorotoluene	<0.16	ug/L	0.55	0.16	1		02/12/21 00:45	95-49-8	
4-Chlorotoluene	<0.050	ug/L	0.17	0.050	1		02/12/21 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	<1.2	ug/L	4.2	1.2	1		02/12/21 00:45	96-12-8	
Dibromochloromethane	<0.20	ug/L	0.66	0.20	1		02/12/21 00:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	0.60	0.18	1		02/12/21 00:45	106-93-4	
Dibromomethane	<0.15	ug/L	0.51	0.15	1		02/12/21 00:45	74-95-3	
1,2-Dichlorobenzene	<0.14	ug/L	0.45	0.14	1		02/12/21 00:45	95-50-1	
1,3-Dichlorobenzene	<0.12	ug/L	0.39	0.12	1		02/12/21 00:45	541-73-1	
1,4-Dichlorobenzene	<0.082	ug/L	0.27	0.082	1		02/12/21 00:45	106-46-7	
Dichlorodifluoromethane	<0.20	ug/L	0.65	0.20	1		02/12/21 00:45	75-71-8	
1,1-Dichloroethane	<0.17	ug/L	0.55	0.17	1		02/12/21 00:45	75-34-3	
1,2-Dichloroethane	<0.25	ug/L	0.85	0.25	1		02/12/21 00:45	107-06-2	
1,1-Dichloroethene	<0.13	ug/L	0.42	0.13	1		02/12/21 00:45	75-35-4	
cis-1,2-Dichloroethene	<0.20	ug/L	0.66	0.20	1		02/12/21 00:45	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/L	0.64	0.19	1		02/12/21 00:45	156-60-5	
Dichlorofluoromethane	<0.19	ug/L	0.63	0.19	1		02/12/21 00:45	75-43-4	
1,2-Dichloropropane	<0.14	ug/L	0.46	0.14	1		02/12/21 00:45	78-87-5	
1,3-Dichloropropane	<0.13	ug/L	0.43	0.13	1		02/12/21 00:45	142-28-9	
2,2-Dichloropropane	<0.20	ug/L	0.66	0.20	1		02/12/21 00:45	594-20-7	
1,1-Dichloropropene	<0.22	ug/L	0.74	0.22	1		02/12/21 00:45	563-58-6	
cis-1,3-Dichloropropene	<0.077	ug/L	0.26	0.077	1		02/12/21 00:45	10061-01-5	
trans-1,3-Dichloropropene	<0.32	ug/L	1.0	0.32	1		02/12/21 00:45	10061-02-6	
Diethyl ether (Ethyl ether)	0.52J	ug/L	0.58	0.18	1		02/12/21 00:45	60-29-7	
Ethylbenzene	0.12J	ug/L	0.25	0.075	1		02/12/21 00:45	100-41-4	
Hexachloro-1,3-butadiene	<0.40	ug/L	1.3	0.40	1		02/12/21 00:45	87-68-3	
Isopropylbenzene (Cumene)	<0.13	ug/L	0.44	0.13	1		02/12/21 00:45	98-82-8	
p-Isopropyltoluene	<0.18	ug/L	0.59	0.18	1		02/12/21 00:45	99-87-6	
Methylene Chloride	<1.1	ug/L	3.7	1.1	1		02/12/21 00:45	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Sample: FIELD BLANK **Lab ID: 10546875008** Collected: 02/02/21 11:30 Received: 02/03/21 17:41 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260D VOC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Minneapolis									
4-Methyl-2-pentanone (MIBK)	0.77J	ug/L	1.8	0.54	1		02/12/21 00:45	108-10-1	
Methyl-tert-butyl ether	<0.12	ug/L	0.39	0.12	1		02/12/21 00:45	1634-04-4	
Naphthalene	<0.68	ug/L	2.3	0.68	1		02/12/21 00:45	91-20-3	
n-Propylbenzene	<0.18	ug/L	0.61	0.18	1		02/12/21 00:45	103-65-1	
Styrene	<0.11	ug/L	0.37	0.11	1		02/12/21 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.13	ug/L	0.44	0.13	1		02/12/21 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.16	ug/L	0.53	0.16	1		02/12/21 00:45	79-34-5	
Tetrachloroethene	<0.17	ug/L	0.58	0.17	1		02/12/21 00:45	127-18-4	
Tetrahydrofuran	<3.4	ug/L	11.3	3.4	1		02/12/21 00:45	109-99-9	
Toluene	0.33J	ug/L	0.41	0.12	1		02/12/21 00:45	108-88-3	
1,2,3-Trichlorobenzene	<0.17	ug/L	0.57	0.17	1		02/12/21 00:45	87-61-6	
1,2,4-Trichlorobenzene	<0.19	ug/L	0.63	0.19	1		02/12/21 00:45	120-82-1	
1,1,1-Trichloroethane	<0.17	ug/L	0.57	0.17	1		02/12/21 00:45	71-55-6	
1,1,2-Trichloroethane	<0.19	ug/L	0.64	0.19	1		02/12/21 00:45	79-00-5	
Trichloroethene	<0.15	ug/L	0.50	0.15	1		02/12/21 00:45	79-01-6	
Trichlorofluoromethane	<0.12	ug/L	0.41	0.12	1		02/12/21 00:45	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	2.0	0.59	1		02/12/21 00:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	<0.30	ug/L	1.0	0.30	1		02/12/21 00:45	76-13-1	
1,2,4-Trimethylbenzene	<0.17	ug/L	0.57	0.17	1		02/12/21 00:45	95-63-6	
1,3,5-Trimethylbenzene	<0.12	ug/L	0.41	0.12	1		02/12/21 00:45	108-67-8	
Vinyl chloride	<0.099	ug/L	0.33	0.099	1		02/12/21 00:45	75-01-4	
Xylene (Total)	0.45J	ug/L	0.96	0.29	1		02/12/21 00:45	1330-20-7	
m&p-Xylene	0.29J	ug/L	0.96	0.29	1		02/12/21 00:45	179601-23-1	
o-Xylene	0.16J	ug/L	0.50	0.15	1		02/12/21 00:45	95-47-6	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%	71-125		1		02/12/21 00:45	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		02/12/21 00:45	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		02/12/21 00:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

QC Batch: 724028 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV 465 W
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10546875001, 10546875002, 10546875003, 10546875004, 10546875005, 10546875006, 10546875007

METHOD BLANK: 3859443 Matrix: Water
Associated Lab Samples: 10546875001, 10546875002, 10546875003, 10546875004, 10546875005, 10546875006, 10546875007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	02/05/21 13:02	
1,1,1-Trichloroethane	ug/L	<0.17	0.57	02/05/21 13:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	0.53	02/05/21 13:02	
1,1,2-Trichloroethane	ug/L	<0.19	0.64	02/05/21 13:02	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.30	1.0	02/05/21 13:02	
1,1-Dichloroethane	ug/L	<0.17	0.55	02/05/21 13:02	
1,1-Dichloroethene	ug/L	<0.13	0.42	02/05/21 13:02	
1,1-Dichloropropane	ug/L	<0.22	0.74	02/05/21 13:02	
1,2,3-Trichlorobenzene	ug/L	<0.17	0.57	02/05/21 13:02	
1,2,3-Trichloropropane	ug/L	<0.59	2.0	02/05/21 13:02	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.63	02/05/21 13:02	
1,2,4-Trimethylbenzene	ug/L	<0.17	0.57	02/05/21 13:02	
1,2-Dibromo-3-chloropropane	ug/L	<1.2	4.2	02/05/21 13:02	
1,2-Dibromoethane (EDB)	ug/L	<0.18	0.60	02/05/21 13:02	
1,2-Dichlorobenzene	ug/L	<0.14	0.45	02/05/21 13:02	
1,2-Dichloroethane	ug/L	<0.25	0.85	02/05/21 13:02	
1,2-Dichloropropane	ug/L	<0.14	0.46	02/05/21 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.12	0.41	02/05/21 13:02	
1,3-Dichlorobenzene	ug/L	<0.12	0.39	02/05/21 13:02	
1,3-Dichloropropane	ug/L	<0.13	0.43	02/05/21 13:02	v2
1,4-Dichlorobenzene	ug/L	<0.082	0.27	02/05/21 13:02	
2,2-Dichloropropane	ug/L	<0.20	0.66	02/05/21 13:02	
2-Butanone (MEK)	ug/L	<0.88	2.9	02/05/21 13:02	
2-Chlorotoluene	ug/L	<0.16	0.55	02/05/21 13:02	
4-Chlorotoluene	ug/L	<0.050	0.17	02/05/21 13:02	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	02/05/21 13:02	
Acetone	ug/L	<2.5	8.4	02/05/21 13:02	
Allyl chloride	ug/L	<0.27	0.90	02/05/21 13:02	v2
Benzene	ug/L	<0.12	0.40	02/05/21 13:02	
Bromobenzene	ug/L	<0.13	0.44	02/05/21 13:02	
Bromochloromethane	ug/L	<0.36	1.2	02/05/21 13:02	
Bromodichloromethane	ug/L	<0.11	0.38	02/05/21 13:02	
Bromoform	ug/L	<0.27	0.90	02/05/21 13:02	v2
Bromomethane	ug/L	<0.63	2.1	02/05/21 13:02	1M
Carbon tetrachloride	ug/L	<0.17	0.56	02/05/21 13:02	
Chlorobenzene	ug/L	<0.076	0.25	02/05/21 13:02	
Chloroethane	ug/L	<0.42	1.4	02/05/21 13:02	
Chloroform	ug/L	<0.48	1.6	02/05/21 13:02	
Chloromethane	ug/L	<0.15	0.49	02/05/21 13:02	
cis-1,2-Dichloroethene	ug/L	<0.20	0.66	02/05/21 13:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

METHOD BLANK: 3859443

Matrix: Water

Associated Lab Samples: 10546875001, 10546875002, 10546875003, 10546875004, 10546875005, 10546875006, 10546875007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.077	0.26	02/05/21 13:02	
Dibromochloromethane	ug/L	<0.20	0.66	02/05/21 13:02	
Dibromomethane	ug/L	<0.15	0.51	02/05/21 13:02	
Dichlorodifluoromethane	ug/L	<0.20	0.65	02/05/21 13:02	
Dichlorofluoromethane	ug/L	<0.19	0.63	02/05/21 13:02	
Diethyl ether (Ethyl ether)	ug/L	<0.18	0.58	02/05/21 13:02	v2
Ethylbenzene	ug/L	<0.075	0.25	02/05/21 13:02	
Hexachloro-1,3-butadiene	ug/L	<0.40	1.3	02/05/21 13:02	
Isopropylbenzene (Cumene)	ug/L	<0.13	0.44	02/05/21 13:02	
m&p-Xylene	ug/L	<0.29	0.96	02/05/21 13:02	
Methyl-tert-butyl ether	ug/L	<0.12	0.39	02/05/21 13:02	
Methylene Chloride	ug/L	<1.1	3.7	02/05/21 13:02	v2
n-Butylbenzene	ug/L	<0.16	0.52	02/05/21 13:02	
n-Propylbenzene	ug/L	<0.18	0.61	02/05/21 13:02	
Naphthalene	ug/L	<0.68	2.3	02/05/21 13:02	
o-Xylene	ug/L	<0.15	0.50	02/05/21 13:02	
p-Isopropyltoluene	ug/L	<0.18	0.59	02/05/21 13:02	
sec-Butylbenzene	ug/L	<0.15	0.49	02/05/21 13:02	
Styrene	ug/L	<0.11	0.37	02/05/21 13:02	
tert-Butylbenzene	ug/L	<0.13	0.43	02/05/21 13:02	
Tetrachloroethene	ug/L	<0.17	0.58	02/05/21 13:02	
Tetrahydrofuran	ug/L	<3.4	11.3	02/05/21 13:02	
Toluene	ug/L	<0.12	0.41	02/05/21 13:02	
trans-1,2-Dichloroethene	ug/L	<0.19	0.64	02/05/21 13:02	v2
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	02/05/21 13:02	
Trichloroethene	ug/L	<0.15	0.50	02/05/21 13:02	
Trichlorofluoromethane	ug/L	<0.12	0.41	02/05/21 13:02	
Vinyl chloride	ug/L	<0.099	0.33	02/05/21 13:02	
Xylene (Total)	ug/L	<0.29	0.96	02/05/21 13:02	
1,2-Dichloroethane-d4 (S)	%	101	71-125	02/05/21 13:02	
4-Bromofluorobenzene (S)	%	96	75-125	02/05/21 13:02	
Toluene-d8 (S)	%	98	75-125	02/05/21 13:02	

LABORATORY CONTROL SAMPLE: 3859444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.5	83	67-134	
1,1,1-Trichloroethane	ug/L	20	18.8	94	72-129	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	74-125	
1,1,2-Trichloroethane	ug/L	20	18.0	90	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.6	103	73-130	
1,1-Dichloroethane	ug/L	20	18.1	91	72-128	
1,1-Dichloroethene	ug/L	20	17.0	85	67-130	
1,1-Dichloropropene	ug/L	20	17.6	88	65-131	

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

LABORATORY CONTROL SAMPLE: 3859444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	19.3	96	69-130	
1,2,3-Trichloropropane	ug/L	20	18.2	91	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.1	95	64-132	
1,2,4-Trimethylbenzene	ug/L	20	18.0	90	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	42.3	85	59-135	
1,2-Dibromoethane (EDB)	ug/L	20	17.9	89	75-125	
1,2-Dichlorobenzene	ug/L	20	19.2	96	74-127	
1,2-Dichloroethane	ug/L	20	16.9	85	74-125	
1,2-Dichloropropane	ug/L	20	17.5	88	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.1	90	75-125	
1,3-Dichlorobenzene	ug/L	20	18.9	95	74-127	
1,3-Dichloropropane	ug/L	20	15.9	80	75-125 v3	
1,4-Dichlorobenzene	ug/L	20	18.9	95	73-125	
2,2-Dichloropropane	ug/L	20	18.7	93	68-129	
2-Butanone (MEK)	ug/L	100	84.8	85	66-129	
2-Chlorotoluene	ug/L	20	17.5	87	75-125	
4-Chlorotoluene	ug/L	20	16.9	85	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	84.4	84	74-129	
Acetone	ug/L	100	88.0	88	50-150	
Allyl chloride	ug/L	20	15.5	78	55-133 v3	
Benzene	ug/L	20	17.6	88	73-125	
Bromobenzene	ug/L	20	18.4	92	72-125	
Bromochloromethane	ug/L	20	18.2	91	75-127	
Bromodichloromethane	ug/L	20	17.6	88	75-125	
Bromoform	ug/L	20	15.1	76	64-134 v3	
Bromomethane	ug/L	20	18.4	92	30-150 1M	
Carbon tetrachloride	ug/L	20	18.5	92	63-135	
Chlorobenzene	ug/L	20	18.8	94	75-125	
Chloroethane	ug/L	20	21.3	106	61-142	
Chloroform	ug/L	20	17.4	87	75-125	
Chloromethane	ug/L	20	19.8	99	64-129	
cis-1,2-Dichloroethene	ug/L	20	16.5	82	74-125	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	75-126	
Dibromochloromethane	ug/L	20	17.3	86	71-131	
Dibromomethane	ug/L	20	18.4	92	75-126	
Dichlorodifluoromethane	ug/L	20	19.4	97	60-135	
Dichlorofluoromethane	ug/L	20	20.4	102	72-125	
Diethyl ether (Ethyl ether)	ug/L	20	15.7	78	70-128 v3	
Ethylbenzene	ug/L	20	17.8	89	75-125	
Hexachloro-1,3-butadiene	ug/L	20	22.0	110	63-134	
Isopropylbenzene (Cumene)	ug/L	20	19.0	95	75-125	
m&p-Xylene	ug/L	40	36.2	90	75-125	
Methyl-tert-butyl ether	ug/L	20	16.7	83	75-125	
Methylene Chloride	ug/L	20	15.7	78	69-125 v3	
n-Butylbenzene	ug/L	20	18.5	93	72-128	
n-Propylbenzene	ug/L	20	18.0	90	75-125	
Naphthalene	ug/L	20	17.2	86	69-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

LABORATORY CONTROL SAMPLE: 3859444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	18.5	92	75-125	
p-Isopropyltoluene	ug/L	20	18.6	93	75-125	
sec-Butylbenzene	ug/L	20	19.3	96	75-127	
Styrene	ug/L	20	18.3	91	75-127	
tert-Butylbenzene	ug/L	20	18.9	95	75-125	
Tetrachloroethene	ug/L	20	19.3	97	69-131	
Tetrahydrofuran	ug/L	200	162	81	70-135	
Toluene	ug/L	20	18.0	90	75-125	
trans-1,2-Dichloroethene	ug/L	20	15.2	76	69-130 v3	
trans-1,3-Dichloropropene	ug/L	20	17.7	88	74-128	
Trichloroethene	ug/L	20	17.6	88	75-130	
Trichlorofluoromethane	ug/L	20	23.0	115	71-133	
Vinyl chloride	ug/L	20	20.9	104	67-129	
Xylene (Total)	ug/L	60	54.7	91	75-125	
1,2-Dichloroethane-d4 (S)	%			103	71-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3861407 3861408

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10547319001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	<0.44	20	20	20	16.9	18.2	85	91	57-134	7	30	
1,1,1-Trichloroethane	ug/L	<0.57	20	20	20	18.6	19.8	93	99	62-136	6	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.53	20	20	20	18.0	18.6	90	93	63-127	4	30	
1,1,2-Trichloroethane	ug/L	<0.64	20	20	20	18.4	20.1	92	101	65-128	9	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	20	20	20	21.2	21.7	106	108	62-145	2	30	
1,1-Dichloroethane	ug/L	<0.55	20	20	20	18.5	19.6	92	98	63-128	6	30	
1,1-Dichloroethene	ug/L	<0.42	20	20	20	17.3	18.1	86	91	59-135	5	30	
1,1-Dichloropropene	ug/L	<0.74	20	20	20	17.8	19.1	89	95	64-135	7	30	
1,2,3-Trichlorobenzene	ug/L	<0.57	20	20	20	19.6	22.5	98	113	59-133	14	30	
1,2,3-Trichloropropane	ug/L	<2.0	20	20	20	18.1	18.6	90	93	62-125	3	30	
1,2,4-Trichlorobenzene	ug/L	<0.63	20	20	20	19.1	21.4	96	107	54-137	11	30	
1,2,4-Trimethylbenzene	ug/L	<0.57	20	20	20	18.3	20.2	91	101	68-126	10	30	
1,2-Dibromo-3-chloropropane	ug/L	<4.2	50	50	50	41.9	43.8	84	88	55-135	4	30	
1,2-Dibromoethane (EDB)	ug/L	<0.60	20	20	20	17.6	19.1	88	95	64-125	8	30	
1,2-Dichlorobenzene	ug/L	<0.45	20	20	20	20.0	21.5	100	108	65-130	7	30	
1,2-Dichloroethane	ug/L	<0.85	20	20	20	17.6	18.5	88	92	58-125	5	30	
1,2-Dichloropropane	ug/L	<0.46	20	20	20	17.5	18.9	87	95	65-125	8	30	
1,3,5-Trimethylbenzene	ug/L	<0.41	20	20	20	18.7	20.9	93	104	67-125	11	30	
1,3-Dichlorobenzene	ug/L	<0.39	20	20	20	19.6	21.6	98	108	68-131	10	30	
1,3-Dichloropropane	ug/L	<0.43	20	20	20	16.4	17.1	82	85	65-125	4	30 v3	
1,4-Dichlorobenzene	ug/L	<0.27	20	20	20	19.2	21.0	96	105	64-127	9	30	
2,2-Dichloropropane	ug/L	<0.66	20	20	20	19.1	20.1	96	100	65-131	5	30	

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Parameter	Units	10547319001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec								
MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3861407				3861408										
2-Butanone (MEK)	ug/L	<2.9	100	100	83.3	85.6	83	86	54-129	3	30					
2-Chlorotoluene	ug/L	<0.55	20	20	17.7	19.8	88	99	69-125	11	30					
4-Chlorotoluene	ug/L	<0.17	20	20	17.7	19.4	88	97	61-129	9	30					
4-Methyl-2-pentanone (MIBK)	ug/L	<1.8	100	100	90.0	94.6	90	95	61-130	5	30					
Acetone	ug/L	<8.4	100	100	69.5	76.2	69	76	30-150	9	30					
Allyl chloride	ug/L	<0.90	20	20	15.8	17.1	79	86	51-137	8	30	v3				
Benzene	ug/L	<0.40	20	20	17.9	19.1	90	96	60-125	7	30					
Bromobenzene	ug/L	<0.44	20	20	18.8	20.2	94	101	61-125	7	30					
Bromochloromethane	ug/L	<1.2	20	20	18.4	19.9	92	99	62-127	8	30					
Bromodichloromethane	ug/L	<0.38	20	20	18.1	19.7	91	98	63-127	8	30					
Bromoform	ug/L	<0.90	20	20	14.8	16.4	74	82	62-134	11	30	v3				
Bromomethane	ug/L	<2.1	20	20	21.8	25.1	109	125	30-150	14	30	1M				
Carbon tetrachloride	ug/L	<0.56	20	20	18.3	19.5	92	97	63-142	6	30					
Chlorobenzene	ug/L	<0.25	20	20	19.2	20.4	96	102	65-128	6	30					
Chloroethane	ug/L	<1.4	20	20	23.0	23.7	115	119	61-142	3	30					
Chloroform	ug/L	<1.6	20	20	17.2	17.8	86	89	63-125	3	30					
Chloromethane	ug/L	<0.49	20	20	21.3	22.6	107	113	56-132	6	30					
cis-1,2-Dichloroethene	ug/L	<0.66	20	20	16.8	17.9	84	89	63-125	6	30					
cis-1,3-Dichloropropene	ug/L	<0.26	20	20	17.6	18.8	88	94	61-126	7	30					
Dibromochloromethane	ug/L	<0.66	20	20	17.5	18.0	88	90	70-131	3	30					
Dibromomethane	ug/L	<0.51	20	20	18.8	19.1	94	95	66-126	1	30					
Dichlorodifluoromethane	ug/L	<0.65	20	20	21.0	21.8	105	109	59-137	3	30					
Dichlorofluoromethane	ug/L	<0.63	20	20	21.6	23.0	108	115	55-144	6	30					
Diethyl ether (Ethyl ether)	ug/L	<0.58	20	20	16.0	16.8	80	84	59-128	5	30	v3				
Ethylbenzene	ug/L	<0.25	20	20	18.2	20.0	91	100	61-125	9	30					
Hexachloro-1,3-butadiene	ug/L	<1.3	20	20	24.4	21.9	122	109	53-143	11	30					
Isopropylbenzene (Cumene)	ug/L	<0.44	20	20	19.4	21.9	97	109	75-128	12	30					
m&p-Xylene	ug/L	<0.96	40	40	36.8	40.5	92	101	62-125	10	30					
Methyl-tert-butyl ether	ug/L	<0.39	20	20	17.3	18.6	86	93	61-125	8	30					
Methylene Chloride	ug/L	<3.7	20	20	16.1	17.3	80	86	58-125	7	30	v3				
n-Butylbenzene	ug/L	<0.52	20	20	19.6	20.8	98	104	67-133	6	30					
n-Propylbenzene	ug/L	<0.61	20	20	18.8	20.6	94	103	67-129	9	30					
Naphthalene	ug/L	<2.3	20	20	17.7	20.3	88	101	54-127	14	30					
o-Xylene	ug/L	<0.50	20	20	18.9	21.1	95	105	60-127	11	30					
p-Isopropyltoluene	ug/L	<0.59	20	20	19.6	21.1	98	106	69-130	7	30					
sec-Butylbenzene	ug/L	<0.49	20	20	20.5	21.9	103	110	69-132	7	30					
Styrene	ug/L	<0.37	20	20	18.3	19.8	91	99	66-132	8	30					
tert-Butylbenzene	ug/L	<0.43	20	20	19.7	21.4	98	107	68-129	9	30					
Tetrachloroethene	ug/L	<0.58	20	20	20.1	21.9	101	110	66-138	8	30					
Tetrahydrofuran	ug/L	<11.3	200	200	166	183	83	91	57-137	9	30					
Toluene	ug/L	<0.41	20	20	18.4	19.7	91	98	61-125	7	30					
trans-1,2-Dichloroethene	ug/L	<0.64	20	20	15.8	16.3	79	82	60-135	3	30	v3				
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	17.8	19.5	89	98	64-128	9	30					
Trichloroethene	ug/L	<0.50	20	20	18.1	18.7	91	94	65-137	3	30					

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3861407		3861408		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10547319001 Result	MS Spike Conc.	MSD Spike Conc.									
Trichlorofluoromethane	ug/L	<0.41	20	20	24.1	24.9	121	124	69-140	3	30		
Vinyl chloride	ug/L	<0.33	20	20	22.6	23.2	113	116	63-132	2	30		
Xylene (Total)	ug/L	<0.96	60	60	55.7	61.6	93	103	63-125	10	30		
1,2-Dichloroethane-d4 (S)	%						102	103	71-125				
4-Bromofluorobenzene (S)	%						96	94	75-125				
Toluene-d8 (S)	%						99	99	75-125				

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

QC Batch: 724976	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV 465 W
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10546875008

METHOD BLANK: 3864169 Matrix: Water

Associated Lab Samples: 10546875008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.13	0.44	02/12/21 00:00	
1,1,1-Trichloroethane	ug/L	<0.17	0.57	02/12/21 00:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.16	0.53	02/12/21 00:00	
1,1,2-Trichloroethane	ug/L	<0.19	0.64	02/12/21 00:00	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.30	1.0	02/12/21 00:00	
1,1-Dichloroethane	ug/L	<0.17	0.55	02/12/21 00:00	
1,1-Dichloroethene	ug/L	<0.13	0.42	02/12/21 00:00	
1,1-Dichloropropane	ug/L	<0.22	0.74	02/12/21 00:00	
1,2,3-Trichlorobenzene	ug/L	<0.17	0.57	02/12/21 00:00	
1,2,3-Trichloropropane	ug/L	<0.59	2.0	02/12/21 00:00	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.63	02/12/21 00:00	
1,2,4-Trimethylbenzene	ug/L	<0.17	0.57	02/12/21 00:00	
1,2-Dibromo-3-chloropropane	ug/L	<1.2	4.2	02/12/21 00:00	
1,2-Dibromoethane (EDB)	ug/L	<0.18	0.60	02/12/21 00:00	
1,2-Dichlorobenzene	ug/L	<0.14	0.45	02/12/21 00:00	
1,2-Dichloroethane	ug/L	<0.25	0.85	02/12/21 00:00	
1,2-Dichloropropane	ug/L	<0.14	0.46	02/12/21 00:00	
1,3,5-Trimethylbenzene	ug/L	<0.12	0.41	02/12/21 00:00	
1,3-Dichlorobenzene	ug/L	<0.12	0.39	02/12/21 00:00	
1,3-Dichloropropane	ug/L	<0.13	0.43	02/12/21 00:00	
1,4-Dichlorobenzene	ug/L	<0.082	0.27	02/12/21 00:00	
2,2-Dichloropropane	ug/L	<0.20	0.66	02/12/21 00:00	
2-Butanone (MEK)	ug/L	<0.88	2.9	02/12/21 00:00	
2-Chlorotoluene	ug/L	<0.16	0.55	02/12/21 00:00	
4-Chlorotoluene	ug/L	<0.050	0.17	02/12/21 00:00	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	1.8	02/12/21 00:00	
Acetone	ug/L	<2.5	8.4	02/12/21 00:00	
Allyl chloride	ug/L	<0.27	0.90	02/12/21 00:00	
Benzene	ug/L	<0.12	0.40	02/12/21 00:00	
Bromobenzene	ug/L	<0.13	0.44	02/12/21 00:00	
Bromochloromethane	ug/L	<0.36	1.2	02/12/21 00:00	
Bromodichloromethane	ug/L	<0.11	0.38	02/12/21 00:00	
Bromoform	ug/L	<0.27	0.90	02/12/21 00:00	
Bromomethane	ug/L	<0.63	2.1	02/12/21 00:00	
Carbon tetrachloride	ug/L	<0.17	0.56	02/12/21 00:00	
Chlorobenzene	ug/L	<0.076	0.25	02/12/21 00:00	
Chloroethane	ug/L	<0.42	1.4	02/12/21 00:00	
Chloroform	ug/L	<0.48	1.6	02/12/21 00:00	
Chloromethane	ug/L	<0.15	0.49	02/12/21 00:00	
cis-1,2-Dichloroethene	ug/L	<0.20	0.66	02/12/21 00:00	

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

METHOD BLANK: 3864169 Matrix: Water
Associated Lab Samples: 10546875008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.077	0.26	02/12/21 00:00	
Dibromochloromethane	ug/L	<0.20	0.66	02/12/21 00:00	
Dibromomethane	ug/L	<0.15	0.51	02/12/21 00:00	
Dichlorodifluoromethane	ug/L	<0.20	0.65	02/12/21 00:00	
Dichlorofluoromethane	ug/L	<0.19	0.63	02/12/21 00:00	
Diethyl ether (Ethyl ether)	ug/L	<0.18	0.58	02/12/21 00:00	
Ethylbenzene	ug/L	<0.075	0.25	02/12/21 00:00	
Hexachloro-1,3-butadiene	ug/L	0.77J	1.3	02/12/21 00:00	
Isopropylbenzene (Cumene)	ug/L	<0.13	0.44	02/12/21 00:00	
m&p-Xylene	ug/L	<0.29	0.96	02/12/21 00:00	
Methyl-tert-butyl ether	ug/L	<0.12	0.39	02/12/21 00:00	
Methylene Chloride	ug/L	<1.1	3.7	02/12/21 00:00	
n-Butylbenzene	ug/L	<0.16	0.52	02/12/21 00:00	
n-Propylbenzene	ug/L	<0.18	0.61	02/12/21 00:00	
Naphthalene	ug/L	<0.68	2.3	02/12/21 00:00	
o-Xylene	ug/L	<0.15	0.50	02/12/21 00:00	
p-Isopropyltoluene	ug/L	<0.18	0.59	02/12/21 00:00	
sec-Butylbenzene	ug/L	<0.15	0.49	02/12/21 00:00	
Styrene	ug/L	<0.11	0.37	02/12/21 00:00	
tert-Butylbenzene	ug/L	<0.13	0.43	02/12/21 00:00	
Tetrachloroethene	ug/L	<0.17	0.58	02/12/21 00:00	
Tetrahydrofuran	ug/L	<3.4	11.3	02/12/21 00:00	
Toluene	ug/L	<0.12	0.41	02/12/21 00:00	
trans-1,2-Dichloroethene	ug/L	<0.19	0.64	02/12/21 00:00	
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	02/12/21 00:00	
Trichloroethene	ug/L	<0.15	0.50	02/12/21 00:00	
Trichlorofluoromethane	ug/L	<0.12	0.41	02/12/21 00:00	
Vinyl chloride	ug/L	<0.099	0.33	02/12/21 00:00	
Xylene (Total)	ug/L	<0.29	0.96	02/12/21 00:00	
1,2-Dichloroethane-d4 (S)	%	92	71-125	02/12/21 00:00	
4-Bromofluorobenzene (S)	%	102	75-125	02/12/21 00:00	
Toluene-d8 (S)	%	102	75-125	02/12/21 00:00	

LABORATORY CONTROL SAMPLE: 3864170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.4	107	67-134	
1,1,1-Trichloroethane	ug/L	20	21.0	105	72-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.7	114	74-125	
1,1,2-Trichloroethane	ug/L	20	21.2	106	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.8	99	73-130	
1,1-Dichloroethane	ug/L	20	20.0	100	72-128	
1,1-Dichloroethene	ug/L	20	21.1	106	67-130	
1,1-Dichloropropene	ug/L	20	19.8	99	65-131	

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

LABORATORY CONTROL SAMPLE: 3864170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	20	18.9	95	69-130	
1,2,3-Trichloropropane	ug/L	20	22.2	111	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.4	97	64-132	
1,2,4-Trimethylbenzene	ug/L	20	22.4	112	75-126	
1,2-Dibromo-3-chloropropane	ug/L	50	57.6	115	59-135	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	105	75-125	
1,2-Dichlorobenzene	ug/L	20	22.4	112	74-127	
1,2-Dichloroethane	ug/L	20	19.6	98	74-125	
1,2-Dichloropropane	ug/L	20	21.3	106	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	75-125	
1,3-Dichlorobenzene	ug/L	20	21.0	105	74-127	
1,3-Dichloropropane	ug/L	20	21.2	106	75-125	
1,4-Dichlorobenzene	ug/L	20	22.0	110	73-125	
2,2-Dichloropropane	ug/L	20	20.0	100	68-129	
2-Butanone (MEK)	ug/L	100	103	103	66-129	
2-Chlorotoluene	ug/L	20	22.2	111	75-125	
4-Chlorotoluene	ug/L	20	20.8	104	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	74-129	
Acetone	ug/L	100	105	105	50-150	
Allyl chloride	ug/L	20	18.4	92	55-133	
Benzene	ug/L	20	20.7	104	73-125	
Bromobenzene	ug/L	20	22.0	110	72-125	
Bromochloromethane	ug/L	20	21.1	106	75-127	
Bromodichloromethane	ug/L	20	21.6	108	75-125	
Bromoform	ug/L	20	21.2	106	64-134	
Bromomethane	ug/L	20	24.5	122	30-150 v1	
Carbon tetrachloride	ug/L	20	21.0	105	63-135	
Chlorobenzene	ug/L	20	20.6	103	75-125	
Chloroethane	ug/L	20	20.7	103	61-142	
Chloroform	ug/L	20	19.5	98	75-125	
Chloromethane	ug/L	20	20.2	101	64-129	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	74-125	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	75-126	
Dibromochloromethane	ug/L	20	23.2	116	71-131	
Dibromomethane	ug/L	20	21.0	105	75-126	
Dichlorodifluoromethane	ug/L	20	18.1	91	60-135	
Dichlorofluoromethane	ug/L	20	20.8	104	72-125	
Diethyl ether (Ethyl ether)	ug/L	20	20.3	102	70-128	
Ethylbenzene	ug/L	20	20.9	105	75-125	
Hexachloro-1,3-butadiene	ug/L	20	23.8	119	63-134	
Isopropylbenzene (Cumene)	ug/L	20	21.1	106	75-125	
m&p-Xylene	ug/L	40	41.3	103	75-125	
Methyl-tert-butyl ether	ug/L	20	21.1	105	75-125	
Methylene Chloride	ug/L	20	20.6	103	69-125	
n-Butylbenzene	ug/L	20	22.0	110	72-128	
n-Propylbenzene	ug/L	20	22.3	112	75-125	
Naphthalene	ug/L	20	19.0	95	69-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION
Pace Project No.: 10546875

LABORATORY CONTROL SAMPLE: 3864170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
o-Xylene	ug/L	20	21.0	105	75-125	
p-Isopropyltoluene	ug/L	20	22.2	111	75-125	
sec-Butylbenzene	ug/L	20	22.5	113	75-127	
Styrene	ug/L	20	21.1	106	75-127	
tert-Butylbenzene	ug/L	20	22.2	111	75-125	
Tetrachloroethene	ug/L	20	21.6	108	69-131	
Tetrahydrofuran	ug/L	200	208	104	70-135	
Toluene	ug/L	20	20.8	104	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	69-130	
trans-1,3-Dichloropropene	ug/L	20	21.4	107	74-128	
Trichloroethene	ug/L	20	20.6	103	75-130	
Trichlorofluoromethane	ug/L	20	21.8	109	71-133	
Vinyl chloride	ug/L	20	21.3	106	67-129	
Xylene (Total)	ug/L	60	62.2	104	75-125	
1,2-Dichloroethane-d4 (S)	%			103	71-125	
4-Bromofluorobenzene (S)	%			107	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3867464 3867465

Parameter	Units	10547987001		MSD		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
1,1,1,2-Tetrachloroethane	ug/L	<0.13	20	20	20.6	21.0	103	105	57-134	2	30				
1,1,1-Trichloroethane	ug/L	<0.17	20	20	21.3	21.3	106	106	62-136	0	30				
1,1,2,2-Tetrachloroethane	ug/L	<0.16	20	20	20.3	21.8	101	109	63-127	7	30				
1,1,2-Trichloroethane	ug/L	<0.19	20	20	19.8	20.1	99	100	65-128	1	30				
1,1,2-Trichlorotrifluoroethane	ug/L	0.48J	20	20	21.8	22.7	107	111	62-145	4	30				
1,1-Dichloroethane	ug/L	<0.17	20	20	19.7	19.9	98	99	63-128	1	30				
1,1-Dichloroethene	ug/L	<0.13	20	20	22.2	22.3	111	112	59-135	1	30				
1,1-Dichloropropene	ug/L	<0.22	20	20	20.5	19.9	102	99	64-135	3	30				
1,2,3-Trichlorobenzene	ug/L	<0.17	20	20	18.2	19.3	91	97	59-133	6	30				
1,2,3-Trichloropropane	ug/L	<0.59	20	20	20.0	21.6	100	108	62-125	8	30				
1,2,4-Trichlorobenzene	ug/L	<0.19	20	20	18.4	19.9	92	100	54-137	8	30				
1,2,4-Trimethylbenzene	ug/L	<0.17	20	20	21.1	23.1	106	116	68-126	9	30				
1,2-Dibromo-3-chloropropane	ug/L	<1.2	50	50	52.3	55.5	105	111	55-135	6	30				
1,2-Dibromoethane (EDB)	ug/L	<0.18	20	20	19.6	19.8	98	99	64-125	1	30				
1,2-Dichlorobenzene	ug/L	<0.14	20	20	20.2	22.3	101	112	65-130	10	30				
1,2-Dichloroethane	ug/L	<0.25	20	20	18.4	18.4	92	92	58-125	0	30				
1,2-Dichloropropane	ug/L	<0.14	20	20	20.0	20.7	100	103	65-125	3	30				
1,3,5-Trimethylbenzene	ug/L	<0.12	20	20	20.5	22.9	103	114	67-125	11	30				
1,3-Dichlorobenzene	ug/L	<0.12	20	20	19.6	21.3	98	107	68-131	8	30				
1,3-Dichloropropane	ug/L	<0.13	20	20	20.3	20.1	101	100	65-125	1	30				
1,4-Dichlorobenzene	ug/L	<0.082	20	20	19.8	21.6	99	108	64-127	9	30				
2,2-Dichloropropane	ug/L	<0.20	20	20	20.1	20.3	101	101	65-131	1	30				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Parameter	Units	3867464		3867465		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10547987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
2-Butanone (MEK)	ug/L	<0.88	100	100	94.1	97.5	94	98	54-129	4	30	
2-Chlorotoluene	ug/L	<0.16	20	20	20.1	22.7	101	113	69-125	12	30	
4-Chlorotoluene	ug/L	<0.050	20	20	19.6	21.3	98	107	61-129	8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.54	100	100	103	106	103	106	61-130	3	30	
Acetone	ug/L	<2.5	100	100	94.0	97.6	94	98	30-150	4	30	
Allyl chloride	ug/L	<0.27	20	20	18.0	18.2	90	91	51-137	1	30	
Benzene	ug/L	<0.12	20	20	19.9	20.1	99	100	60-125	1	30	
Bromobenzene	ug/L	<0.13	20	20	20.2	21.5	101	107	61-125	6	30	
Bromochloromethane	ug/L	<0.36	20	20	19.8	19.1	99	96	62-127	4	30	
Bromodichloromethane	ug/L	<0.11	20	20	19.4	20.7	97	104	63-127	7	30	
Bromoform	ug/L	<0.27	20	20	20.1	20.3	100	102	62-134	1	30	
Bromomethane	ug/L	<0.63	20	20	24.6	25.0	123	125	30-150	2	30	v1
Carbon tetrachloride	ug/L	<0.17	20	20	22.3	22.5	111	113	63-142	1	30	
Chlorobenzene	ug/L	<0.076	20	20	19.9	20.0	99	100	65-128	0	30	
Chloroethane	ug/L	<0.42	20	20	21.9	21.9	109	109	61-142	0	30	
Chloroform	ug/L	<0.48	20	20	18.5	18.5	93	92	63-125	0	30	
Chloromethane	ug/L	<0.15	20	20	21.2	21.2	106	106	56-132	0	30	
cis-1,2-Dichloroethene	ug/L	<0.20	20	20	19.2	19.3	96	96	63-125	1	30	
cis-1,3-Dichloropropene	ug/L	<0.077	20	20	18.2	19.6	91	98	61-126	7	30	
Dibromochloromethane	ug/L	<0.20	20	20	22.0	21.9	110	110	70-131	0	30	
Dibromomethane	ug/L	<0.15	20	20	19.8	20.2	99	101	66-126	2	30	
Dichlorodifluoromethane	ug/L	<0.20	20	20	20.3	20.2	102	101	59-137	0	30	
Dichlorofluoromethane	ug/L	<0.19	20	20	21.8	22.0	109	110	55-144	1	30	
Diethyl ether (Ethyl ether)	ug/L	<0.18	20	20	18.6	19.5	93	98	59-128	5	30	
Ethylbenzene	ug/L	<0.075	20	20	20.7	21.4	104	107	61-125	3	30	
Hexachloro-1,3-butadiene	ug/L	<0.40	20	20	25.7	23.2	128	116	53-143	10	30	
Isopropylbenzene (Cumene)	ug/L	<0.13	20	20	21.1	22.1	106	110	75-128	4	30	
m&p-Xylene	ug/L	<0.29	40	40	39.8	42.2	100	105	62-125	6	30	
Methyl-tert-butyl ether	ug/L	<0.12	20	20	19.3	19.7	96	99	61-125	2	30	
Methylene Chloride	ug/L	<1.1	20	20	19.7	19.3	98	97	58-125	2	30	
n-Butylbenzene	ug/L	<0.16	20	20	22.6	23.2	113	116	67-133	3	30	
n-Propylbenzene	ug/L	<0.18	20	20	21.6	23.9	108	120	67-129	10	30	
Naphthalene	ug/L	<0.68	20	20	17.9	19.2	89	96	54-127	7	30	
o-Xylene	ug/L	<0.15	20	20	20.0	21.1	100	105	60-127	5	30	
p-Isopropyltoluene	ug/L	<0.18	20	20	22.7	23.8	113	119	69-130	5	30	
sec-Butylbenzene	ug/L	<0.15	20	20	22.7	24.2	114	121	69-132	7	30	
Styrene	ug/L	<0.11	20	20	19.9	20.7	99	104	66-132	4	30	
tert-Butylbenzene	ug/L	<0.13	20	20	22.4	23.9	112	119	68-129	6	30	
Tetrachloroethene	ug/L	<0.17	20	20	21.3	22.5	107	113	66-138	5	30	
Tetrahydrofuran	ug/L	<3.4	200	200	193	201	97	101	57-137	4	30	
Toluene	ug/L	<0.12	20	20	21.1	21.4	105	107	61-125	2	30	
trans-1,2-Dichloroethene	ug/L	<0.19	20	20	20.1	19.9	100	100	60-135	1	30	
trans-1,3-Dichloropropene	ug/L	<0.32	20	20	20.2	19.7	101	98	64-128	2	30	
Trichloroethene	ug/L	5.2	20	20	26.0	26.5	104	106	65-137	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Parameter	Units	3867464		3867465		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		10547987001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Trichlorofluoromethane	ug/L	<0.12	20	20	24.0	23.3	120	117	69-140	3	30	
Vinyl chloride	ug/L	<0.099	20	20	23.1	22.3	115	111	63-132	4	30	
Xylene (Total)	ug/L	<0.29	60	60	59.8	63.3	100	105	63-125	6	30	
1,2-Dichloroethane-d4 (S)	%						104	97	71-125			
4-Bromofluorobenzene (S)	%						101	107	75-125			
Toluene-d8 (S)	%						103	102	75-125			

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QUALIFIERS

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| 1M | This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 156%. Results may be biased high. |
| v1 | The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias. |
| v2 | The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard. |
| v3 | The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J200827 BLACKHAWK JUNCTION

Pace Project No.: 10546875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10546875001	MW-01	EPA 8260D	724028		
10546875002	MW-02	EPA 8260D	724028		
10546875003	MW-03	EPA 8260D	724028		
10546875004	MW-04	EPA 8260D	724028		
10546875005	MW-05	EPA 8260D	724028		
10546875006	MW-04-D	EPA 8260D	724028		
10546875007	TRIP BLANK	EPA 8260D	724028		
10546875008	FIELD BLANK	EPA 8260D	724976		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Log MTJL

WO#: 10546875



10546875

Company: BAYWEST

Billing Information: ACCOUNTSPAYABLE@BAYWEST.COM

Address: 5 EMPIRE DRIVE, ST PAUL

Email To: RICKV@BAYWEST.COM

Report To: RICKV@BAYWEST.COM

Site Collection Info/Address: 700 E BLACKHAWK AVE, PDC WI

Customer Project Name/Number: BLACKHAWK JUNCTION / J200827 WI

State: County/City: Time Zone Collected: [] PT [] MT [] CT [] ET

Phone: 651-291-0456

Compliance Monitoring? [] Yes [] No

Collected By (print): ZACH MASON

Purchase Order #: 110833

Collected By (signature): [Signature]

Turnaround Date Required: Immediately Packed on Ice: [X] Yes [] No

Sample Disposal: [] Dispose as appropriate [] Return

Rush: [] Same Day [] Next Day

[] Archive: [] Hold: []

Field Filtered (if applicable): [] Yes [X] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix, Comp / Grab, Collected (or Composite Start) [Date, Time], Composite End [Date, Time], Res Cl, # of Ctns. Rows include MW-01, MW-02, MW-03, MW-04, MW-05, MW-04-D, TRP BLANK, FIELD BLANK.

ALL SHADED ARE

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses table with columns for various analytical tests.

Lab Profile/Line: Lab Sample Receipt Checklist:

- Checklist items: Custody Seals Present/Intact, Custody Signatures Present, Collector Signature Present, Bottles Intact, Correct Bottles, Sufficient Volume, Samples Received on Ice, VOA - Headspace Acceptable, USDA Regulated Soils, Samples in Holding Time, Residual Chlorine Present, Cl Strips, Sample pH Acceptable, pH Strips, Sulfide Present, Lead Acetate Strips.

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT-HOLDS PRESENT (<72 hours): Y N N/A

Lab Sample Temperature Info: Temp Blank Received: Y N NA

Relinquished by/Company: (Signature) [Signature]

Date/Time: 2/3/21 1740

Received by/Company: (Signature) TJPAGE

Lab Tracking #: 2606594

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)


Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: PB: Non Conformance(s): YES / NO Page: of:

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 12Aug2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.01	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>Baywest</u>	Project #: WO# : 10546875
Courier:	<input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> SpeedDee <input type="checkbox"/> Commercial	PM: CL1 Due Date: 02/18/21 CLIENT: BW-BAY WEST
Tracking Number:	See Exceptions <input type="checkbox"/> ENV-FRM-MIN4-0142	
Custody Seal on Cooler/Box Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Packing Material:	<input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Thermometer:	<input type="checkbox"/> T1(0461) <input type="checkbox"/> T2(1336) <input type="checkbox"/> T3(0459) <input type="checkbox"/> T4(0254) <input checked="" type="checkbox"/> T5(0489)	Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Dry <input type="checkbox"/> Melted	

Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	CL1 2/4/21
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>2.0</u> °C	Average Corrected Temp (no temp blank only): _____ °C
Correction Factor: <u>0.1</u>	Cooler Temp Corrected w/temp blank: <u>2.1</u> °C	<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: (N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** JS 2-3-21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No See Exception <input type="checkbox"/> Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No ENV-FRM-MIN4-0142 pH Paper Lot# Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>2</u> Pace Trip Blank Lot # (if purchased): <u>287390</u>

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Field Data Required? Yes No

Project Manager Review: Col Lynch **Date:** 2/4/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MKZ (3) Page 40 of 40

April 21, 2021

Rick VanAllen
Bay West, Inc.
5 Empire Drive
Saint Paul, MN 55103

RE: Project: 200827 Blackhawk Junction Phas
Pace Project No.: 10554723

Dear Rick VanAllen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sylvia Hunter
sylvia.hunter@pacelabs.com
1(612)607-1700
Project Manager

Enclosures

cc: Ryan Riley, Bay West LLC
Jeff Smith, Pace Analytical Services, Inc
Gerrit Vanderwaal, Bay West



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10554723001	MW-1	Water	04/07/21 18:55	04/09/21 14:05
10554723002	MW-2	Water	04/08/21 14:25	04/09/21 14:05
10554723003	MW-3	Water	04/08/21 16:40	04/09/21 14:05
10554723004	MW-4	Water	04/08/21 18:45	04/09/21 14:05
10554723005	MW-4-D	Water	04/08/21 18:50	04/09/21 14:05
10554723006	MW-5	Water	04/08/21 11:34	04/09/21 14:05
10554723007	Trip Blank	Water	04/05/21 08:30	04/09/21 14:05

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SAMPLE ANALYTE COUNT

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10554723001	MW-1	EPA 8260	SMT	70	PASI-G
10554723002	MW-2	EPA 8260	SMT	70	PASI-G
10554723003	MW-3	EPA 8260	SMT	70	PASI-G
10554723004	MW-4	EPA 8260	SMT	70	PASI-G
10554723005	MW-4-D	EPA 8260	SMT	70	PASI-G
10554723006	MW-5	EPA 8260	SMT	70	PASI-G
10554723007	Trip Blank	EPA 8260	SMT	70	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Method: EPA 8260

Description: 8260 MSV

Client: Bay West LLC

Date: April 21, 2021

General Information:

7 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-1 Lab ID: 10554723001 Collected: 04/07/21 18:55 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/16/21 21:02	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:02	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/16/21 21:02	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/16/21 21:02	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/16/21 21:02	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:02	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/16/21 21:02	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/16/21 21:02	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:02	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/16/21 21:02	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/16/21 21:02	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/16/21 21:02	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/16/21 21:02	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/16/21 21:02	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:02	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/16/21 21:02	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/16/21 21:02	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:02	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:02	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:02	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/16/21 21:02	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/16/21 21:02	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/16/21 21:02	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:02	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:02	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/16/21 21:02	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/16/21 21:02	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/16/21 21:02	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/16/21 21:02	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:02	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/16/21 21:02	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:02	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/16/21 21:02	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:02	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/16/21 21:02	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:02	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/16/21 21:02	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/16/21 21:02	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/16/21 21:02	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/16/21 21:02	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/16/21 21:02	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/16/21 21:02	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:02	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/16/21 21:02	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:02	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-1 **Lab ID: 10554723001** Collected: 04/07/21 18:55 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/16/21 21:02	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/16/21 21:02	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/16/21 21:02	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/16/21 21:02	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/16/21 21:02	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:02	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.41	1		04/16/21 21:02	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/16/21 21:02	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/16/21 21:02	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/16/21 21:02	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:02	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/16/21 21:02	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/16/21 21:02	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/16/21 21:02	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:02	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:02	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:02	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:02	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/16/21 21:02	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/16/21 21:02	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/16/21 21:02	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/16/21 21:02	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/16/21 21:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		04/16/21 21:02	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		04/16/21 21:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-2 **Lab ID: 10554723002** Collected: 04/08/21 14:25 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/16/21 21:28	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:28	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/16/21 21:28	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/16/21 21:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/16/21 21:28	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:28	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/16/21 21:28	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/16/21 21:28	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:28	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/16/21 21:28	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/16/21 21:28	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/16/21 21:28	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/16/21 21:28	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/16/21 21:28	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:28	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/16/21 21:28	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/16/21 21:28	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:28	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:28	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:28	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/16/21 21:28	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/16/21 21:28	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/16/21 21:28	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:28	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:28	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/16/21 21:28	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/16/21 21:28	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/16/21 21:28	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/16/21 21:28	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:28	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/16/21 21:28	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:28	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/16/21 21:28	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:28	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/16/21 21:28	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:28	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/16/21 21:28	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/16/21 21:28	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/16/21 21:28	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/16/21 21:28	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/16/21 21:28	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/16/21 21:28	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:28	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/16/21 21:28	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:28	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-2 **Lab ID: 10554723002** Collected: 04/08/21 14:25 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/16/21 21:28	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/16/21 21:28	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/16/21 21:28	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/16/21 21:28	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/16/21 21:28	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:28	100-42-5	
Tetrachloroethene	8.7	ug/L	1.0	0.41	1		04/16/21 21:28	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/16/21 21:28	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/16/21 21:28	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/16/21 21:28	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:28	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/16/21 21:28	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/16/21 21:28	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/16/21 21:28	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:28	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:28	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:28	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:28	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/16/21 21:28	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/16/21 21:28	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/16/21 21:28	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/16/21 21:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/16/21 21:28	460-00-4	
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		04/16/21 21:28	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		04/16/21 21:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-3 **Lab ID: 10554723003** Collected: 04/08/21 16:40 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/16/21 21:55	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:55	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/16/21 21:55	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/16/21 21:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/16/21 21:55	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:55	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/16/21 21:55	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/16/21 21:55	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:55	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/16/21 21:55	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/16/21 21:55	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/16/21 21:55	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/16/21 21:55	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/16/21 21:55	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:55	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/16/21 21:55	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/16/21 21:55	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:55	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:55	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/16/21 21:55	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/16/21 21:55	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/16/21 21:55	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/16/21 21:55	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:55	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 21:55	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/16/21 21:55	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/16/21 21:55	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/16/21 21:55	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/16/21 21:55	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:55	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/16/21 21:55	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:55	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/16/21 21:55	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:55	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/16/21 21:55	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:55	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/16/21 21:55	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/16/21 21:55	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/16/21 21:55	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/16/21 21:55	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/16/21 21:55	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/16/21 21:55	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/16/21 21:55	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/16/21 21:55	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 21:55	100-41-4	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-3 **Lab ID: 10554723003** Collected: 04/08/21 16:40 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/16/21 21:55	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/16/21 21:55	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/16/21 21:55	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/16/21 21:55	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/16/21 21:55	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:55	100-42-5	
Tetrachloroethene	5.2	ug/L	1.0	0.41	1		04/16/21 21:55	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/16/21 21:55	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/16/21 21:55	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/16/21 21:55	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 21:55	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/16/21 21:55	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/16/21 21:55	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/16/21 21:55	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/16/21 21:55	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 21:55	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 21:55	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/16/21 21:55	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/16/21 21:55	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/16/21 21:55	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/16/21 21:55	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/16/21 21:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/16/21 21:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		04/16/21 21:55	2199-69-1	
Toluene-d8 (S)	107	%	70-130		1		04/16/21 21:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-4 **Lab ID: 10554723004** Collected: 04/08/21 18:45 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/19/21 11:15	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:15	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/19/21 11:15	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/19/21 11:15	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/19/21 11:15	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:15	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/19/21 11:15	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/19/21 11:15	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/19/21 11:15	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/19/21 11:15	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/19/21 11:15	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/19/21 11:15	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/19/21 11:15	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/19/21 11:15	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 11:15	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/19/21 11:15	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/19/21 11:15	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:15	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 11:15	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:15	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/19/21 11:15	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/19/21 11:15	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/19/21 11:15	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 11:15	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 11:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/19/21 11:15	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/19/21 11:15	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/19/21 11:15	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/19/21 11:15	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:15	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/19/21 11:15	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 11:15	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/19/21 11:15	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/19/21 11:15	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/19/21 11:15	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 11:15	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/19/21 11:15	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/19/21 11:15	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/19/21 11:15	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/19/21 11:15	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/19/21 11:15	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/19/21 11:15	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/19/21 11:15	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/19/21 11:15	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 11:15	100-41-4	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-4 **Lab ID: 10554723004** Collected: 04/08/21 18:45 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/19/21 11:15	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/19/21 11:15	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/19/21 11:15	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/19/21 11:15	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/19/21 11:15	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:15	100-42-5	
Tetrachloroethene	8.3	ug/L	1.0	0.41	1		04/19/21 11:15	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/19/21 11:15	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/19/21 11:15	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/19/21 11:15	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 11:15	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/19/21 11:15	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/19/21 11:15	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/19/21 11:15	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:15	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 11:15	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 11:15	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/19/21 11:15	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/19/21 11:15	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/19/21 11:15	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/19/21 11:15	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/19/21 11:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/19/21 11:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		04/19/21 11:15	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		04/19/21 11:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-4-D **Lab ID: 10554723005** Collected: 04/08/21 18:50 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/19/21 11:41	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:41	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/19/21 11:41	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/19/21 11:41	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/19/21 11:41	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:41	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/19/21 11:41	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/19/21 11:41	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/19/21 11:41	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/19/21 11:41	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/19/21 11:41	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/19/21 11:41	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/19/21 11:41	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/19/21 11:41	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 11:41	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/19/21 11:41	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/19/21 11:41	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:41	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 11:41	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/19/21 11:41	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/19/21 11:41	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/19/21 11:41	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/19/21 11:41	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 11:41	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 11:41	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/19/21 11:41	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/19/21 11:41	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/19/21 11:41	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/19/21 11:41	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:41	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/19/21 11:41	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 11:41	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/19/21 11:41	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/19/21 11:41	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/19/21 11:41	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 11:41	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/19/21 11:41	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/19/21 11:41	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/19/21 11:41	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/19/21 11:41	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/19/21 11:41	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/19/21 11:41	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/19/21 11:41	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/19/21 11:41	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 11:41	100-41-4	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-4-D **Lab ID: 10554723005** Collected: 04/08/21 18:50 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/19/21 11:41	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/19/21 11:41	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/19/21 11:41	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/19/21 11:41	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/19/21 11:41	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:41	100-42-5	
Tetrachloroethene	8.3	ug/L	1.0	0.41	1		04/19/21 11:41	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/19/21 11:41	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/19/21 11:41	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/19/21 11:41	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 11:41	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/19/21 11:41	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/19/21 11:41	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/19/21 11:41	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/19/21 11:41	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 11:41	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 11:41	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/19/21 11:41	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/19/21 11:41	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/19/21 11:41	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/19/21 11:41	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/19/21 11:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/19/21 11:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		04/19/21 11:41	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		04/19/21 11:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-5 **Lab ID: 10554723006** Collected: 04/08/21 11:34 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/16/21 22:21	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 22:21	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/16/21 22:21	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/16/21 22:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/16/21 22:21	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/16/21 22:21	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/16/21 22:21	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/16/21 22:21	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/16/21 22:21	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/16/21 22:21	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/16/21 22:21	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/16/21 22:21	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/16/21 22:21	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/16/21 22:21	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 22:21	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/16/21 22:21	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/16/21 22:21	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 22:21	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 22:21	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/16/21 22:21	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/16/21 22:21	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/16/21 22:21	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/16/21 22:21	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 22:21	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/16/21 22:21	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/16/21 22:21	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/16/21 22:21	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/16/21 22:21	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/16/21 22:21	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/16/21 22:21	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/16/21 22:21	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 22:21	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/16/21 22:21	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/16/21 22:21	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/16/21 22:21	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 22:21	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/16/21 22:21	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/16/21 22:21	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/16/21 22:21	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/16/21 22:21	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/16/21 22:21	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/16/21 22:21	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/16/21 22:21	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/16/21 22:21	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/16/21 22:21	100-41-4	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: MW-5 **Lab ID: 10554723006** Collected: 04/08/21 11:34 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/16/21 22:21	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/16/21 22:21	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/16/21 22:21	1634-04-4	
Methylene Chloride	0.34J	ug/L	5.0	0.32	1		04/16/21 22:21	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/16/21 22:21	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/16/21 22:21	100-42-5	
Tetrachloroethene	0.96J	ug/L	1.0	0.41	1		04/16/21 22:21	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/16/21 22:21	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/16/21 22:21	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/16/21 22:21	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/16/21 22:21	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/16/21 22:21	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/16/21 22:21	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/16/21 22:21	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/16/21 22:21	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/16/21 22:21	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/16/21 22:21	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/16/21 22:21	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/16/21 22:21	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/16/21 22:21	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/16/21 22:21	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/16/21 22:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/16/21 22:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		04/16/21 22:21	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		04/16/21 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: Trip Blank **Lab ID: 10554723007** Collected: 04/05/21 08:30 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.36	1		04/19/21 10:22	630-20-6	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 10:22	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	0.38	1		04/19/21 10:22	79-34-5	
1,1,2-Trichloroethane	<5.0	ug/L	5.0	0.34	1		04/19/21 10:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	<5.0	ug/L	5.0	0.38	1		04/19/21 10:22	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.30	1		04/19/21 10:22	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.58	1		04/19/21 10:22	75-35-4	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.41	1		04/19/21 10:22	563-58-6	
1,2,3-Trichlorobenzene	<5.0	ug/L	5.0	1.0	1		04/19/21 10:22	87-61-6	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	0.56	1		04/19/21 10:22	96-18-4	
1,2,4-Trichlorobenzene	<5.0	ug/L	5.0	0.95	1		04/19/21 10:22	120-82-1	
1,2,4-Trimethylbenzene	<1.0	ug/L	1.0	0.45	1		04/19/21 10:22	95-63-6	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	2.4	1		04/19/21 10:22	96-12-8	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.31	1		04/19/21 10:22	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 10:22	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.29	1		04/19/21 10:22	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.45	1		04/19/21 10:22	78-87-5	
1,3,5-Trimethylbenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 10:22	108-67-8	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 10:22	541-73-1	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.30	1		04/19/21 10:22	142-28-9	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.89	1		04/19/21 10:22	106-46-7	
2,2-Dichloropropane	<5.0	ug/L	5.0	4.2	1		04/19/21 10:22	594-20-7	
2-Butanone (MEK)	<25.0	ug/L	25.0	6.5	1		04/19/21 10:22	78-93-3	
2-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 10:22	95-49-8	
4-Chlorotoluene	<5.0	ug/L	5.0	0.89	1		04/19/21 10:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	<25.0	ug/L	25.0	6.0	1		04/19/21 10:22	108-10-1	
Acetone	<25.0	ug/L	25.0	8.6	1		04/19/21 10:22	67-64-1	
Allyl chloride	<5.0	ug/L	5.0	1.3	1		04/19/21 10:22	107-05-1	
Benzene	<1.0	ug/L	1.0	0.30	1		04/19/21 10:22	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.36	1		04/19/21 10:22	108-86-1	
Bromochloromethane	<5.0	ug/L	5.0	0.36	1		04/19/21 10:22	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 10:22	75-27-4	
Bromoform	<5.0	ug/L	5.0	3.8	1		04/19/21 10:22	75-25-2	
Bromomethane	<5.0	ug/L	5.0	1.2	1		04/19/21 10:22	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	0.37	1		04/19/21 10:22	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 10:22	108-90-7	
Chloroethane	<5.0	ug/L	5.0	1.4	1		04/19/21 10:22	75-00-3	
Chloroform	<5.0	ug/L	5.0	1.2	1		04/19/21 10:22	67-66-3	
Chloromethane	<5.0	ug/L	5.0	1.6	1		04/19/21 10:22	74-87-3	
Dibromochloromethane	<5.0	ug/L	5.0	2.6	1		04/19/21 10:22	124-48-1	
Dibromomethane	<5.0	ug/L	5.0	0.99	1		04/19/21 10:22	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	5.0	0.46	1		04/19/21 10:22	75-71-8	
Dichlorofluoromethane	<5.0	ug/L	5.0	1.2	1		04/19/21 10:22	75-43-4	
Diethyl ether (Ethyl ether)	<5.0	ug/L	5.0	1.1	1		04/19/21 10:22	60-29-7	
Ethylbenzene	<1.0	ug/L	1.0	0.33	1		04/19/21 10:22	100-41-4	

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ANALYTICAL RESULTS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Sample: Trip Blank **Lab ID: 10554723007** Collected: 04/05/21 08:30 Received: 04/09/21 14:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<5.0	ug/L	5.0	2.7	1		04/19/21 10:22	87-68-3	
Isopropylbenzene (Cumene)	<5.0	ug/L	5.0	1.0	1		04/19/21 10:22	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	5.0	1.1	1		04/19/21 10:22	1634-04-4	
Methylene Chloride	<5.0	ug/L	5.0	0.32	1		04/19/21 10:22	75-09-2	
Naphthalene	<5.0	ug/L	5.0	1.1	1		04/19/21 10:22	91-20-3	
Styrene	<1.0	ug/L	1.0	0.36	1		04/19/21 10:22	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	0.41	1		04/19/21 10:22	127-18-4	
Tetrahydrofuran	<25.0	ug/L	25.0	2.4	1		04/19/21 10:22	109-99-9	
Toluene	<1.0	ug/L	1.0	0.29	1		04/19/21 10:22	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	0.32	1		04/19/21 10:22	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	0.42	1		04/19/21 10:22	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	0.17	1		04/19/21 10:22	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1.0	1		04/19/21 10:22	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.47	1		04/19/21 10:22	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.36	1		04/19/21 10:22	10061-01-5	
n-Butylbenzene	<1.0	ug/L	1.0	0.86	1		04/19/21 10:22	104-51-8	
n-Propylbenzene	<1.0	ug/L	1.0	0.35	1		04/19/21 10:22	103-65-1	
p-Isopropyltoluene	<5.0	ug/L	5.0	1.0	1		04/19/21 10:22	99-87-6	
sec-Butylbenzene	<1.0	ug/L	1.0	0.42	1		04/19/21 10:22	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.59	1		04/19/21 10:22	98-06-6	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.53	1		04/19/21 10:22	156-60-5	
trans-1,3-Dichloropropene	<5.0	ug/L	5.0	3.5	1		04/19/21 10:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/19/21 10:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		04/19/21 10:22	2199-69-1	
Toluene-d8 (S)	94	%	70-130		1		04/19/21 10:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

QC Batch: 382514

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 10554723001, 10554723002, 10554723003, 10554723004, 10554723005, 10554723006, 10554723007

METHOD BLANK: 2206127

Matrix: Water

Associated Lab Samples: 10554723001, 10554723002, 10554723003, 10554723004, 10554723005, 10554723006, 10554723007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	04/16/21 16:40	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	04/16/21 16:40	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	04/16/21 16:40	
1,1,2-Trichloroethane	ug/L	<5.0	5.0	04/16/21 16:40	
1,1,2-Trichlorotrifluoroethane	ug/L	<5.0	5.0	04/16/21 16:40	
1,1-Dichloroethane	ug/L	<1.0	1.0	04/16/21 16:40	
1,1-Dichloroethene	ug/L	<1.0	1.0	04/16/21 16:40	
1,1-Dichloropropene	ug/L	<1.0	1.0	04/16/21 16:40	
1,2,3-Trichlorobenzene	ug/L	<5.0	5.0	04/16/21 16:40	
1,2,3-Trichloropropane	ug/L	<5.0	5.0	04/16/21 16:40	
1,2,4-Trichlorobenzene	ug/L	<5.0	5.0	04/16/21 16:40	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	5.0	04/16/21 16:40	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	04/16/21 16:40	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	04/16/21 16:40	
1,2-Dichloroethane	ug/L	<1.0	1.0	04/16/21 16:40	
1,2-Dichloropropane	ug/L	<1.0	1.0	04/16/21 16:40	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	04/16/21 16:40	
1,3-Dichloropropane	ug/L	<1.0	1.0	04/16/21 16:40	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	04/16/21 16:40	
2,2-Dichloropropane	ug/L	<5.0	5.0	04/16/21 16:40	
2-Butanone (MEK)	ug/L	<25.0	25.0	04/16/21 16:40	
2-Chlorotoluene	ug/L	<5.0	5.0	04/16/21 16:40	
4-Chlorotoluene	ug/L	<5.0	5.0	04/16/21 16:40	
4-Methyl-2-pentanone (MIBK)	ug/L	<25.0	25.0	04/16/21 16:40	
Acetone	ug/L	<25.0	25.0	04/16/21 16:40	
Allyl chloride	ug/L	<5.0	5.0	04/16/21 16:40	
Benzene	ug/L	<1.0	1.0	04/16/21 16:40	
Bromobenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Bromochloromethane	ug/L	<5.0	5.0	04/16/21 16:40	
Bromodichloromethane	ug/L	<1.0	1.0	04/16/21 16:40	
Bromoform	ug/L	<5.0	5.0	04/16/21 16:40	
Bromomethane	ug/L	<5.0	5.0	04/16/21 16:40	
Carbon tetrachloride	ug/L	<1.0	1.0	04/16/21 16:40	
Chlorobenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Chloroethane	ug/L	<5.0	5.0	04/16/21 16:40	
Chloroform	ug/L	<5.0	5.0	04/16/21 16:40	
Chloromethane	ug/L	<5.0	5.0	04/16/21 16:40	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	04/16/21 16:40	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

METHOD BLANK: 2206127

Matrix: Water

Associated Lab Samples: 10554723001, 10554723002, 10554723003, 10554723004, 10554723005, 10554723006, 10554723007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	04/16/21 16:40	
Dibromochloromethane	ug/L	<5.0	5.0	04/16/21 16:40	
Dibromomethane	ug/L	<5.0	5.0	04/16/21 16:40	
Dichlorodifluoromethane	ug/L	<5.0	5.0	04/16/21 16:40	
Dichlorofluoromethane	ug/L	<5.0	5.0	04/16/21 16:40	
Diethyl ether (Ethyl ether)	ug/L	<5.0	5.0	04/16/21 16:40	
Ethylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Hexachloro-1,3-butadiene	ug/L	<5.0	5.0	04/16/21 16:40	
Isopropylbenzene (Cumene)	ug/L	<5.0	5.0	04/16/21 16:40	
Methyl-tert-butyl ether	ug/L	<5.0	5.0	04/16/21 16:40	
Methylene Chloride	ug/L	<5.0	5.0	04/16/21 16:40	
n-Butylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
n-Propylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Naphthalene	ug/L	<5.0	5.0	04/16/21 16:40	
p-Isopropyltoluene	ug/L	<5.0	5.0	04/16/21 16:40	
sec-Butylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Styrene	ug/L	<1.0	1.0	04/16/21 16:40	
tert-Butylbenzene	ug/L	<1.0	1.0	04/16/21 16:40	
Tetrachloroethene	ug/L	<1.0	1.0	04/16/21 16:40	
Tetrahydrofuran	ug/L	<25.0	25.0	04/16/21 16:40	
Toluene	ug/L	<1.0	1.0	04/16/21 16:40	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	04/16/21 16:40	
trans-1,3-Dichloropropene	ug/L	<5.0	5.0	04/16/21 16:40	
Trichloroethene	ug/L	<1.0	1.0	04/16/21 16:40	
Trichlorofluoromethane	ug/L	<1.0	1.0	04/16/21 16:40	
Vinyl chloride	ug/L	<1.0	1.0	04/16/21 16:40	
Xylene (Total)	ug/L	<3.0	3.0	04/16/21 16:40	
4-Bromofluorobenzene (S)	%	100	70-130	04/16/21 16:40	
Toluene-d8 (S)	%	100	70-130	04/16/21 16:40	

LABORATORY CONTROL SAMPLE: 2206128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.0	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	66-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.4	117	50-150	
1,1-Dichloroethane	ug/L	50	54.2	108	68-132	
1,1-Dichloroethene	ug/L	50	56.3	113	85-126	
1,2,4-Trichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	70-130	

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QUALITY CONTROL DATA

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

LABORATORY CONTROL SAMPLE: 2206128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	51.4	103	78-125	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.9	100	70-130	
Benzene	ug/L	50	52.6	105	70-132	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	46.8	94	65-130	
Bromomethane	ug/L	50	43.1	86	44-128	
Carbon tetrachloride	ug/L	50	57.0	114	70-130	
Chlorobenzene	ug/L	50	50.5	101	70-130	
Chloroethane	ug/L	50	55.0	110	73-137	
Chloroform	ug/L	50	54.1	108	80-122	
Chloromethane	ug/L	50	53.0	106	27-148	
cis-1,2-Dichloroethene	ug/L	50	50.7	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	70-130	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dichlorodifluoromethane	ug/L	50	48.3	97	22-151	
Ethylbenzene	ug/L	50	50.7	101	80-123	
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	70-130	
Methyl-tert-butyl ether	ug/L	50	47.8	96	66-130	
Methylene Chloride	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	53.4	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	58-125	
Trichloroethene	ug/L	50	52.4	105	70-130	
Trichlorofluoromethane	ug/L	50	57.0	114	84-148	
Vinyl chloride	ug/L	50	56.3	113	63-142	
Xylene (Total)	ug/L	150	149	99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207487 2207488

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10554723003 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.8	54.5	108	109	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	52.2	46.2	104	92	66-130	12	20		
1,1,2-Trichloroethane	ug/L	<5.0	50	50	54.8	50.9	110	102	70-130	7	20		
1,1,2-Trichlorotrifluoroethane	ug/L	<5.0	50	50	58.6	56.9	117	114	50-150	3	20		
1,1-Dichloroethane	ug/L	<1.0	50	50	54.7	51.0	109	102	68-132	7	20		
1,1-Dichloroethene	ug/L	<1.0	50	50	56.7	55.0	113	110	76-132	3	20		
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	54.6	50.7	109	101	70-130	7	20		
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	48.8	47.6	98	95	51-126	3	20		

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QUALITY CONTROL DATA

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207487		2207488		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		10554723003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	53.6	50.5	107	101	70-130	6	20		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	53.3	48.1	107	96	70-130	10	20		
1,2-Dichloroethane	ug/L	<1.0	50	50	53.2	50.2	106	100	70-130	6	20		
1,2-Dichloropropane	ug/L	<1.0	50	50	51.8	50.7	104	101	77-125	2	20		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	54.4	51.6	109	103	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<1.0	50	50	53.0	51.5	106	103	70-130	3	20		
Benzene	ug/L	<1.0	50	50	53.1	51.4	106	103	70-132	3	20		
Bromodichloromethane	ug/L	<1.0	50	50	51.9	49.3	104	99	70-130	5	20		
Bromoform	ug/L	<5.0	50	50	52.1	46.7	104	93	65-130	11	20		
Bromomethane	ug/L	<5.0	50	50	47.8	47.4	95	94	44-128	1	21		
Carbon tetrachloride	ug/L	<1.0	50	50	55.3	53.4	111	107	70-132	3	20		
Chlorobenzene	ug/L	<1.0	50	50	53.0	51.6	106	103	70-130	3	20		
Chloroethane	ug/L	<5.0	50	50	57.5	54.7	115	109	70-137	5	20		
Chloroform	ug/L	<5.0	50	50	54.0	52.4	108	105	80-122	3	20		
Chloromethane	ug/L	<5.0	50	50	54.4	52.9	109	106	17-149	3	20		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	51.0	48.6	102	97	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	52.0	48.4	104	97	70-130	7	20		
Dibromochloromethane	ug/L	<5.0	50	50	53.2	51.3	106	103	70-130	4	20		
Dichlorodifluoromethane	ug/L	<5.0	50	50	47.7	47.5	95	95	22-158	0	20		
Ethylbenzene	ug/L	<1.0	50	50	53.6	51.9	107	104	80-123	3	20		
Isopropylbenzene (Cumene)	ug/L	<5.0	50	50	55.7	53.8	111	108	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<5.0	50	50	51.3	47.5	103	95	66-130	8	20		
Methylene Chloride	ug/L	<5.0	50	50	50.6	48.0	101	96	70-130	5	20		
Styrene	ug/L	<1.0	50	50	53.8	51.0	108	102	70-130	5	20		
Tetrachloroethene	ug/L	5.2	50	50	58.8	56.8	107	103	70-130	3	20		
Toluene	ug/L	<1.0	50	50	52.6	52.0	105	104	80-121	1	20		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	50.7	50.0	101	100	70-134	1	20		
trans-1,3-Dichloropropene	ug/L	<5.0	50	50	51.6	47.3	103	95	58-130	9	20		
Trichloroethene	ug/L	<1.0	50	50	53.7	52.0	107	104	70-130	3	20		
Trichlorofluoromethane	ug/L	<1.0	50	50	58.3	56.9	117	114	82-151	2	20		
Vinyl chloride	ug/L	<1.0	50	50	56.3	55.4	113	111	61-143	2	20		
Xylene (Total)	ug/L	<3.0	150	150	158	151	106	101	70-130	5	20		
4-Bromofluorobenzene (S)	%						98	94	70-130				
Toluene-d8 (S)	%						101	100	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 200827 Blackhawk Junction Phas

Pace Project No.: 10554723

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 200827 Blackhawk Junction Phas
Pace Project No.: 10554723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10554723001	MW-1	EPA 8260	382514		
10554723002	MW-2	EPA 8260	382514		
10554723003	MW-3	EPA 8260	382514		
10554723004	MW-4	EPA 8260	382514		
10554723005	MW-4-D	EPA 8260	382514		
10554723006	MW-5	EPA 8260	382514		
10554723007	Trip Blank	EPA 8260	382514		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Sample Condition Upon Receipt Client Name: Bay West Project #: **WO#: 10554723**

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial

Tracking Number: _____ See Exceptions ENV-FRM-MIN4-0142

PM: SH1 Due Date: 04/23/21
 CLIENT: BW-BAY WEST

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) Type of Ice: Wet Blue None Dry Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 4.5 5.0 2.7 °C Average Corrected Temp (no temp blank only): _____ °C See Exceptions ENV-FRM-MIN4-0142 1 Container

Correction Factor: -0.1 Cooler Temp Corrected w/temp blank: 4.4, 5.5, 2.6 °C

USDA Regulated Soil: N/A, water sample/Other: _____ Date/Initials of Person Examining Contents: JS 4/19/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Containers Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. <u>client noted on COC</u>
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: <u>VOA</u> , Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142 Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No pH Paper Lot# _____ Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>2 HLI</u>
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): <u>297438</u>

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 4/12/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: TJ @ MLL

Internal Transfer Chain of Custody

40225067



Samples Pre-Logged into eCOC.

State Of Origin: WI
 Cert. Needed: Yes No

Workorder: 10554723 Workorder Name: 200827 Blackhawk Junction Phas

Owner Received Date: 4/9/2021 Results Requested By: 4/22/2021

Report To		Subcontract To					Requested Analysis																
Sylvia Hunter Pace Analytical Minnesota 1700 Elm Street Minneapolis, MN 55414 Phone 1(612)607-1700		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436					VG9H 3 ea Preserved Containers 8260 VOC 465W																
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL																	
1	MW-1	PS	4/7/2021 18:55	10554723001	Water	1																	001
2	MW-2	PS	4/8/2021 14:25	10554723002	Water	1																	002
3	MW-3	PS	4/8/2021 16:40	10554723003	Water	1																	003
4	MW-4	PS	4/8/2021 18:45	10554723004	Water	1																	004
5	MW-4-D	PS	4/8/2021 18:50	10554723005	Water	1																	005
6	MW-5	PS	4/8/2021 11:34	10554723006	Water	1																	006
7	Trip Blank	PS	4/5/2021 08:30	10554723007	Water	1																	007
Comments																							
Transfers	Released By	Date/Time	Received By	Date/Time																			
1	<i>[Signature]</i>	4/13/21 14:30	<i>[Signature]</i>	4/14/21 09:05																			
2	<i>[Signature]</i>	4/14/21 09:05	<i>[Signature]</i>	4/14/21 09:05																			
3																							
Cooler Temperature on Receipt		5 °C	Custody Seal <input checked="" type="checkbox"/> or N		Received on Ice <input checked="" type="checkbox"/> or N		Samples Intact <input checked="" type="checkbox"/> or N																

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



40225067

1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 (612)607-1700

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
GP-11	8260D VOC	Dichlorodifluoromethane	1	ug/L
		Chloromethane	4	ug/L
		Vinyl chloride	0.2	ug/L
		Bromomethane	4	ug/L
		Chloroethane	1	ug/L
		Trichlorofluoromethane	1	ug/L
		Dichlorofluoromethane	1	ug/L
		Diethyl ether (Ethyl ether)	4	ug/L
		1,1-Dichloroethene	1	ug/L
		1,1,2-Trichlorotrifluoroethane	1	ug/L
		Allyl chloride	4	ug/L
		Methylene Chloride	4	ug/L
		Acetone	20	ug/L
		trans-1,2-Dichloroethene	1	ug/L
		Methyl-tert-butyl ether	1	ug/L
		1,1-Dichloroethane	1	ug/L
		cis-1,2-Dichloroethene	1	ug/L
		2,2-Dichloropropane	4	ug/L
		Bromochloromethane	1	ug/L
		Chloroform	1	ug/L
		Carbon tetrachloride	1	ug/L
		Tetrahydrofuran	10	ug/L
		1,1,1-Trichloroethane	1	ug/L
		1,1-Dichloropropene	1	ug/L
		2-Butanone (MEK)	5	ug/L
		Benzene	1	ug/L
		1,2-Dichloroethane	1	ug/L
		Trichloroethene	0.4	ug/L
		Dibromomethane	4	ug/L
		1,2-Dichloropropane	4	ug/L
		Bromodichloromethane	1	ug/L
		cis-1,3-Dichloropropene	4	ug/L
		Toluene	1	ug/L
		Tetrachloroethene	1	ug/L
		4-Methyl-2-pentanone (MIBK)	5	ug/L
		trans-1,3-Dichloropropene	4	ug/L
		1,1,2-Trichloroethane	1	ug/L
		Dibromochloromethane	1	ug/L
		1,3-Dichloropropane	1	ug/L
		1,2-Dibromoethane (EDB)	1	ug/L
		Chlorobenzene	1	ug/L
		Ethylbenzene	1	ug/L
		1,1,1,2-Tetrachloroethane	1	ug/L
		m&p-Xylene	2	ug/L
		o-Xylene	1	ug/L
		Styrene	1	ug/L
		Bromoform	4	ug/L
Isopropylbenzene (Cumene)	1	ug/L		
Bromobenzene	1	ug/L		
n-Propylbenzene	1	ug/L		
1,1,2,2-Tetrachloroethane	1	ug/L		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.



40225067

1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 (612)607-1700

SAMPLE ACKNOWLEDGMENT

Analyte List

Customer Sample ID	Method	Compound	Reporting	
			Limit	Units
GP-11D	8260D VOC	2-Chlorotoluene	1	ug/L
		1,2,3-Trichloropropane	4	ug/L
		1,3,5-Trimethylbenzene	1	ug/L
		4-Chlorotoluene	1	ug/L
		tert-Butylbenzene	1	ug/L
		1,2,4-Trimethylbenzene	1	ug/L
		sec-Butylbenzene	1	ug/L
		p-Isopropyltoluene	1	ug/L
		1,3-Dichlorobenzene	1	ug/L
		1,4-Dichlorobenzene	1	ug/L
		n-Butylbenzene	1	ug/L
		1,2-Dichlorobenzene	1	ug/L
		1,2-Dibromo-3-chloropropane	4	ug/L
		Hexachloro-1,3-butadiene	1	ug/L
		1,2,4-Trichlorobenzene	1	ug/L
		Naphthalene	4	ug/L
		1,2,3-Trichlorobenzene	1	ug/L
		Xylene (Total)	3	ug/L
		Dichlorodifluoromethane	1	ug/L
		Chloromethane	4	ug/L
		Vinyl chloride	0.2	ug/L
		Bromomethane	4	ug/L
		Chloroethane	1	ug/L
		Trichlorofluoromethane	1	ug/L
		Dichlorofluoromethane	1	ug/L
		Diethyl ether (Ethyl ether)	4	ug/L
		1,1-Dichloroethene	1	ug/L
		1,1,2-Trichlorotrifluoroethane	1	ug/L
		Allyl chloride	4	ug/L
		Methylene Chloride	4	ug/L
		Acetone	20	ug/L
		trans-1,2-Dichloroethene	1	ug/L
		Methyl-tert-butyl ether	1	ug/L
		1,1-Dichloroethane	1	ug/L
		cis-1,2-Dichloroethene	1	ug/L
2,2-Dichloropropane	4	ug/L		
Bromochloromethane	1	ug/L		
Chloroform	1	ug/L		
Carbon tetrachloride	1	ug/L		
Tetrahydrofuran	10	ug/L		
1,1,1-Trichloroethane	1	ug/L		
1,1-Dichloropropene	1	ug/L		
2-Butanone (MEK)	5	ug/L		
Benzene	1	ug/L		
1,2-Dichloroethane	1	ug/L		
Trichloroethene	0.4	ug/L		
Dibromomethane	4	ug/L		
1,2-Dichloropropane	4	ug/L		
Bromodichloromethane	1	ug/L		
cis-1,3-Dichloropropene	4	ug/L		
Toluene	1	ug/L		

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Pace MN

Project # 40225067

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:


Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act. pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T
001																3															2.5 / 5 / 10
002																3															2.5 / 5 / 10
003																3															2.5 / 5 / 10
004																3															2.5 / 5 / 10
005																3															2.5 / 5 / 10
006																2															2.5 / 5 / 10
007																2															2.5 / 5 / 10
008																															2.5 / 5 / 10
009																															2.5 / 5 / 10
010																															2.5 / 5 / 10
011																															2.5 / 5 / 10
012																															2.5 / 5 / 10
013																															2.5 / 5 / 10
014																															2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			


 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace MN Project #: _____
Courier: CS Logistics Fed Ex Speedee UPS **Waltco**
 Client Pace Other: _____

Tracking #: 2811038-1

WO# : 40225067



40225067

Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used: SR - 90 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: 1 / Corr: -5
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:

Date: 4/14/21 / Initials: LP

Labeled By Initials: SRK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4. <u>Jill W</u> <u>4/14/21 LP</u>
Samples Arrived within Hold Time: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used: - Pace Containers Used: - Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>Two vials for 001 and one vial for 006 have bulged septa</u> <u>4/14/21 SRK</u>
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis Matrix: <u>W</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased): _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

