State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Notice: Use this form to request **a written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf"

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Wisniewski	Scott		First Bank Financial		
Mailing Address			**City**	**State**	**ZIP Code**
5555 North Port Washington Road			Glendale	WI	53217
Phone # (include area code)	**Fax # (include area code)**		**Email**		
(414) 290-3219			scott.wisniewski@fbfcwi.com		

The requester listed above: (select all that apply)

- ☐ Is currently the owner
- ☐ Is considering selling the Property
- ☐ Is renting or leasing the Property
- ☐ Is considering acquiring the Property
- ☒ Is a lender with a mortgagee interest in the Property
- ☐ Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request) ☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Gravelle	D'Arcy		Key Engineering Group, Ltd.		
Mailing Address			**City**	**State**	**ZIP Code**
735 North Water Street			Milwaukee	WI	53202
Phone # (include area code)	**Fax # (include area code)**		**Email**		
(262) 993-4607			dgravelle@keyengineering.com		

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Gravelle	D'Arcy		Key Engineering Group, Ltd.		
Mailing Address			**City**	**State**	**ZIP Code**
735 North Water Street			Milwaukee	WI	53202
Phone # (include area code)	**Fax # (include area code)**		**Email**		
(262) 993-4607			dgravelle@keyengineering.com		

Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name		
Lee	Kyungjae		Joy Cleaners		
Mailing Address			**City**	**State**	**ZIP Code**
9122 West North Avenue			Wauwatosa	WI	53226
Phone # (include area code)	**Fax # (include area code)**		**Email**		
(414) 777-7181			klionj@gmail.com		

Section 2. Property Information

Property Name	FID No. (if known)
Joy Cleaners	

BRRTS No. (if known)	Parcel Identification Number
	3330768000

Street Address	City	State	ZIP Code
9122-9130 West North Avenue	Wauwatosa	WI	53226

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Milwaukee	◉ City ○ Town ○ Village of Wauwatosa	◉ Single tax parcel ○ Multiple tax parcels	0

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

◉ No ○ Yes

Date requested by: _____

Reason:

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

◉ No. **Include the fee that is required for your request in Section 3, 4 or 5.**

○ Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:
Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: **[Numbers in brackets are for WI DNR Use]**

☐ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of $350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.

☐ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**

☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of $1050.**

☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**

☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**

☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**

☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**

☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**

☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

☐ Schedule a Technical Assistance Meeting - **Include a fee of $700.**

☐ Hazardous Waste Determination - **Include a fee of $700.**

☐ Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**

☐ Include a fee of $300 for sites with residual soil contamination; and

☐ Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

☐ "Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the real Property, and/or the personal Property and fixtures;

(2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;

(3) the date the environmental assessment was conducted by the lender;

(4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.

(5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.

(6) a copy of the Property deed with the correct legal description; and,

(7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).

(8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:

h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.

i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

☐ "Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

(2) the date of Property acquisition by the representative;

(3) the means by which the Property was acquired;

(4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;

(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and

(6) a copy of the Property deed with the correct legal description.

☐ Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

☐ hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];

☐ Perceived environmental contamination - [649];

☐ hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or

☐ solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of $700, a summary of the environmental liability clarification being requested, and the following:**

(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).

(2) current and proposed ownership status of the Property;

(3) date and means by which the Property was acquired by the LGU, where applicable;

(4) a map and the ¼, ¼ section location of the Property;

(5) summary of current uses of the Property;

(6) intended or potential use(s) of the Property;

(7) descriptions of other investigations that have taken place on the Property; and

(8) (for solid waste clarifications) a summary of the license history of the facility.

Section 4. Request for Liability Clarification (cont.)

☐ Lease liability clarification - s. 292.55, Wis. Stats. [646]

- ❖ **Include a fee of $700 for a single Property, or $1400 for multiple Properties and the information listed below:**

(1) a copy of the proposed lease;

(2) the name of the current owner of the Property and the person who will lease the Property;

(3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;

(4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;

(5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and

(6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

- ❖ **Include a fee of $700 and an adequate summary of relevant environmental work to date.**

☒ No Action Required (NAR) - NR 716.05, [682]

- ❖ **Include a fee of $700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

☐ Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

- ❖ **Include a fee of $700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf).

☐ Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf).

☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

- ❖ **Include a fee of $1400, and the information listed below:**

(1) a draft schedule for remediation; and,
(2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

☒ Phase I Environmental Site Assessment Report - Date: 11/14/2017

☒ Phase II Environmental Site Assessment Report - Date: 12/08/2017

☐ Legal Description of Property (required for all liability requests and specialized agreements)

☒ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☒ Groundwater ☒ Soil ☐ Sediment ☐ Other medium - Describe: _____

Date of Collection: 11/29/2017

☐ A copy of the closure letter and submittal materials

☐ Draft tax cancellation agreement

☐ Draft agreement for assignment of tax foreclosure judgment

☐ Other report(s) or information - Describe: _____

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

◯ Yes - Date (if known): _____

◉ No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

☐ I am the person submitting this request (requester)

☒ I prepared this request for: Scott Wisniewski
Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Signature

4/2/18
Date Signed

Consultant
Title

(262) 993-4607
Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

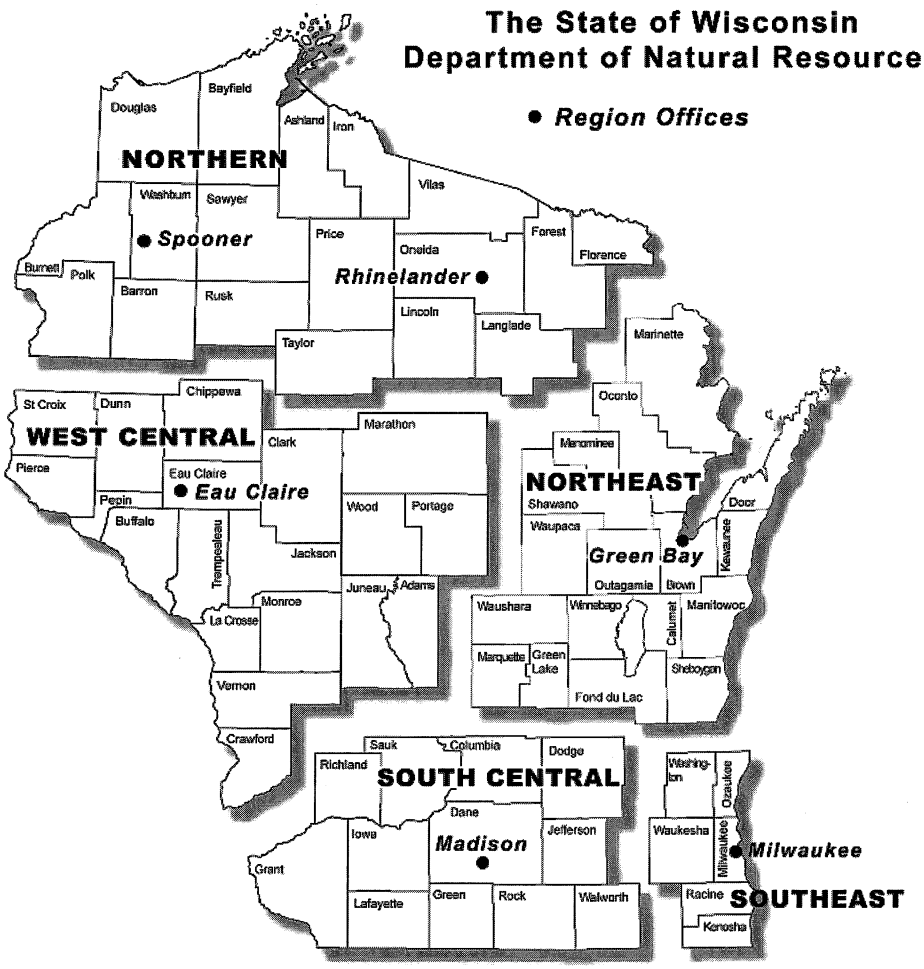
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer	Comments		
Fee Enclosed? ◯ Yes ◯ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

KEY ENGINEERING GROUP LTD.
A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

April 3, 2018

Remediation and Redevelopment Program Assistant
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Drive
Milwaukee, Wisconsin 53212

Subject: *No Action Required Request*
Joy Cleaners
9122 West North Avenue
Wauwatosa, Wisconsin

KEY ENGINEERING GROUP, LTD.
File No. 1710-1972-0003

Dear Program Assistant:

The purpose of this letter is to request the Wisconsin Department of Natural Resources (WDNR) for a No Action Required (NAR) status for the property located at 9122 West North Avenue, Wauwatosa, Wisconsin. Key Engineering Group, Ltd. (KEY) has prepared this letter on behalf of Scott Wisniewski of First Bank Financial, who is the representative of the owner of the property.

Attached is the Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request (WDNR Form 4400-237), supporting documentation, and $700 review fee.

Please feel free to call us at (414) 224-8300 if you have any questions regarding this request.

Sincerely,

KEY ENGINEERING GROUP, LTD.

Jason M. Drews
Staff Hydrogeologist

D'Arcy Gravelle, CPG, PG
Principal Hydrogeologist

cc: Scott Wisniewski (via email: scott.wisniewski@fbfcwi.com)

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

April 3, 2018

Remediation and Redevelopment Program Assistant
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Drive
Milwaukee, Wisconsin 53212

Subject: *No Action Required Request*
Joy Cleaners
9122 West North Avenue
Wauwatosa, Wisconsin

KEY ENGINEERING GROUP, LTD.
File No. 1710-1972-0003

Dear Program Assistant:

The purpose of this letter is to request the Wisconsin Department of Natural Resources (WDNR) for a No Action Required (NAR) status for the property located at 9122 West North Avenue, Wauwatosa, Wisconsin (site). Key Engineering Group, Ltd. (KEY) has prepared this letter on behalf of Scott Wisniewski of First Bank Financial, who is the representative of the owner of the property.

SITE DESCRIPTION

The site is identified as the property located at 9122 West North Avenue, in the City of Wauwatosa, Milwaukee County, Wisconsin. The site is located at 43°3'38.51" N, 88°1'37.69" W (Figure 1). The site is approximately 0.26 acres in size. The address is associated with a parcel number of 333076800. The site is currently developed with an approximately 1,900 square-foot single-story concrete block building. The building is currently occupied by Joy Cleaners, a dry-cleaning business. The structure is serviced by municipal water and sewer, overhead electric, and natural gas. The site is bound by Swan Boulevard to the west and West North Avenue to the south. A site detail map is presented as Figure 2.

The site is zoned as commercial. The site is in an area of commercial and residential land-use activity. Surrounding land-use is described as follows:

North: Residential Property – This site is used by a private residence.
South: Mixed commercial/residential Use Building – This site is used as a Collectivo Coffee store, Mode clothing store, Firefly Real Estate, and private residences on the second and third floors.
East: Visual Imagery Photography – This site is used as a photography studio.
West: BMO Harris – This site is used as a bank.

SITE BACKGROUND

A Phase I Environmental Site Assessment (ESA) was prepared by KEY on November 14, 2017. The Phase I ESA identified one recognized environmental condition (REC):

- There has been an active dry cleaner located on the subject site for 9 years. The dry cleaner uses Perchloroethylene (PCE) for the cleaning operations. The use of this chemical for cleaning represents a concern to the subject site. Dry Cleaners are known to impact the subsurface environment. This represents a REC.

A copy of the Phase I ESA is included in Attachment 1.

Based on the findings from the Phase I ESA, a Phase II ESA was completed by KEY on December 8, 2017. The purpose of this Phase II ESA was to determine if, and to what potential degree, the site may be contaminated from dry-cleaning operations. A copy of the Phase II ESA is included in Attachment 2.

Boring locations are presented on Figure 2. A summary of soil analytical results is presented in Table 1. Below is a summary of the investigation activities and findings from the Phase II ESA.

- Completed the investigation behind the dry cleaner in the asphalt paved parking lot. Natural gas and water utilities enter the building from the west and south. The sewer line is located in the asphalt parking lot and alley located north of the site.
- Advanced two soil borings (SB-1 and SB-2) to 12 feet below ground surface (bgs).
- Described soils as consisting silty clay or silt with some clay.
- Field screened soils using a photoionization detector (PID). Readings ranged from 0.1 to 0.3 parts per million (ppm) in each boring. These readings are below background.
- Collected and submitted two soil samples per boring for laboratory analysis of volatile organic hydrocarbons (VOCs) using Method 8260B.
    - PCE exceeded the protection of groundwater residual contaminant level (RCL) of 0.0045 milligram per kilogram (mg/kg) in SB-1 from 0 to 2 feet bgs at 0.14 mg/kg and from 4 to 6 feet at 0.8 mg/kg, and in SB-2 from 2 to 4 feet bgs at 0.59 mg/kg and from 6 to 8 feet at 0.43 mg/kg.
- Converted boring SB-1 to temporary well TW-1. Temporary well TW-1 was installed to 12 feet bgs. A groundwater sample was not collected due to an insufficient volume of water in the well.
- Abandoned borings SB-1 and SB-2.

Due to the low-level exceedances of PCE in SB-1 and SB-2, additional investigation activities were conducted onsite by KEY. Well locations are presented on Figure 2. A summary of soil analytical results is presented in Table 1. Groundwater elevations are presented in Table 2. A summary of groundwater analytical results is presented in Table 3. Boring logs, well construction, and well development forms are included in Attachment 3. Laboratory reports are included in Attachment 4. Below is a summary of the additional investigation activities completed, findings, and a summary of the analytical results.

- Installed, developed, and surveyed monitoring wells (MW-1, MW-2, and MW-3) to evaluate soil and groundwater quality.
- Described soils as consisting of silty clay and some fine sand.
- Field screened soils using a PID. PID readings ranged from 0.1 to 0.7 ppm in MW-1, 0.2 to 2.5 ppm in MW-2, and 0.1 to 0.3 ppm in MW-3. These readings are below background.
- Collected two soil samples per boring for laboratory analysis for VOCs using Method 8260B.
    - PCE exceeded the protection of groundwater RCL of 0.0045 mg/kg in MW-1 from 2 to 4 feet bgs at 0.033J mg/kg. However, PCE was not detected in the deeper soil sample analyzed from 12 to 14 feet above the water table.
    - PCE exceeded the protection of groundwater RCL of 0.0045 mg/kg in MW-2 from 2 to 4 feet bgs at 0.054J mg/kg and from 12 to 14 feet at 0.10 mg/kg. Groundwater was sampled from this well to determine if groundwater impacts were present.
    - VOCs were not detected in the soil samples analyzed from MW-3 from 2 to 4 feet or 12 to 14 feet bgs. Groundwater was sampled from this well to determine if groundwater impacts were present.

- Collected groundwater elevations and samples for laboratory analysis of VOCs using Method 8260B from MW-2 and MW-3 on January 25, 2018 and March 8, 2018.
    - Groundwater was encountered between approximately 15.7 and 15.9 feet bgs.
    - Monitoring well MW-1 was not sampled in January or March because the well was dry. However, PCE was delineated in soil above the water table.
    - Monitoring well MW-2 was installed near boring SB-2 to evaluate groundwater quality. PCE was detected above the NR140 preventive action limit (PAL) of 0.5 micrograms per liter (µg/L) in MW-2 in January and March 2018 at 1.2 µg/L and 1.7 µg/L, respectively.
    - Monitoring well MW-3 was installed near the north property line. VOCs were not detected in the January or March 2018 groundwater samples.

FINDINGS, CONCLUSIONS, AND RECOMMENDATION

Based upon the investigation data collected during the Phase II ESAs, the following findings and conclusions can be made.

- The investigation was completed behind the dry cleaner in the asphalt paved parking lot. Utilities are located outside the limits of the investigation area.
- Soil VOCs were detected below their respective non-industrial direct contact RCLs.
- The protection of groundwater RCL was exceeded for PCE in SB-1 from 0 to 2 and 4 to 6 feet bgs, SB-2 from 2 to 4 and 6 to 8 feet bgs, MW-1 from 2 to 4 feet bgs, and MW-2 from 2 to 4 and 12 to 14 feet bgs.
- Groundwater was encountered between approximately 15.7 and 15.9 feet bgs.
- Monitoring well MW-1 was installed near boring SB-1. PCE was not detected in the soil sample analyzed from above the water table from 12 to 14 feet bgs.

- Monitoring well MW-2 was installed to evaluate groundwater quality near boring SB-2 where PCE was detected above the protection of groundwater RCL. PCE was detected above its PAL in two sampling events, but below enforcement standards.
- Monitoring well MW-3 was installed to evaluate soil and groundwater quality at the north property line. VOCs were not detected in soil or groundwater in MW-3.

Since PCE was delineated vertically by deeper soil samples above the water table and groundwater PCE concentrations were detected below laboratory detection limits or NR140 enforcement standards, it is KEY's opinion that the site does not pose a significant risk. Therefore, KEY is requesting concurrence from the WDNR that this activity does not require further investigation and the status of No Action Required is appropriate.

Please do not hesitate to call us at (414) 224-8300 should the WDNR have any questions regarding this submittal. We look forward to your response.

Sincerely,
KEY ENGINEERING GROUP, LTD.

Jason M. Drews
Staff Hydrogeologist

D'Arcy Gravelle, CPG, PG
Principal Hydrogeologist

cc: Scott Wisniewski (via email: scott.wisniewski@fbfcwi.com)

Attachments

Table 1 Soil Analytical Results
Table 2 Groundwater Elevations
Table 3 Groundwater Analytical Results

Figure 1 Site Location Map
Figure 2 Site Layout Map

Attachment 1 Phase I Environmental Site Assessment*
Attachment 2 Phase II Environmental Site Assessment
Attachment 3 Boring Logs, Well Construction, and Well Development Forms
Attachment 4 Soil and Groundwater Laboratory Reports

* A full copy is available upon request.

Tables

Table 1. Soil Analytical Results

Joy Cleaners, 9122 West North Avenue, Wauwatosa, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	SAMPLE IDENTIFICATION									
Sample Identification				SB-1		SB-2		MW-1		MW-2		MW-3	
Date Collected				11/29/2017	11/29/2017	11/29/2017	11/29/2017	1/22/18	1/22/2018	1/22/2018	1/22/2018	1/22/2018	1/22/2018
Depth (feet bgs)				0-2	4-6	2-4	6-8	2-4	12-14	2-4	12-14	2-4	12-14
Saturated(s)/Unsaturated(u)				u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)													
Methylene chloride	61.8	1150	0.0026	<0.025	<0.025	0.036J	0.028J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	**0.14**	**0.8**	**0.59**	**0.43**	**0.033J**	<0.025	**0.054J**	**0.10**	<0.025	<0.025

Notes:

Methylene chloride is a common laboratory contaminant and not evaluated.

Bold values exceed the NR 720 residual contaminant level for protection of groundwater

Boxed values exceed the NR 720 residual contaminant level for non-industrial direct contact

--- - no standard established

J - Results between laboratory limit of detection and limit of quanititation

bgs - below ground surface

mg/kg - milligrams per kilogram

VOCs - volatile organic compounds

Table 2. Groundwater Elevations

Joy Cleaners, 9122 West North Avenue, Wauwatosa, Wisconsin

WELL IDENTIFICATION (DATE MEASURED)	GROUND ELEVATION (FEET AMSL)	TOP OF WELL CASING ELEVATION (FEET AMSL)	DEPTH TO BOTTOM (FEET BTOC)	SCREEN LENGTH (FEET)	DEPTH TO GROUNDWATER (FEET BTOC)	GROUNDWATER ELEVATION (FEET AMSL)
MW-1						
1/25/2018	695.55	695.23	15.80	10.0	Dry	>15.80
3/8/2018					Dry	>15.80
MW-2						
1/25/2018	695.30	694.83	25.25	15.0	15.45	679.38
3/8/2018					15.18	679.65
MW-3						
1/25/2018	695.22	694.88	25.10	15.0	15.45	679.43
3/8/2018					15.20	679.68

Notes:

Benchmark is located on the concrete pad by the entrance (774.12 feet amsl)
AMSL - above mean sea level
BTOC - below top of casing

Table 3. Groundwater Analytical Results

Joy Cleaners, 9122 North Avenue, Wauwatosa, Wisconsin

PARAMETERS	Preventive Action Limit	Enforcement Standard	SAMPLE IDENTIFICATION				
			MW-2		MW-2 DUP-1	MW-3	
Date Collected			1/25/2018	3/8/2018	3/8/2018	1/25/2018	3/8/2018
Detected VOCs (µg/l)							
Tetrachloroethene	0.5	5	*1.2*	*1.7*	*1.5*	<0.50	<0.50
1,1,1-Trichloroethane	40	200	1.0	1.7	1.6	<0.50	<0.50

Notes:

Bold concentrations exceed NR 140 enforcement standard

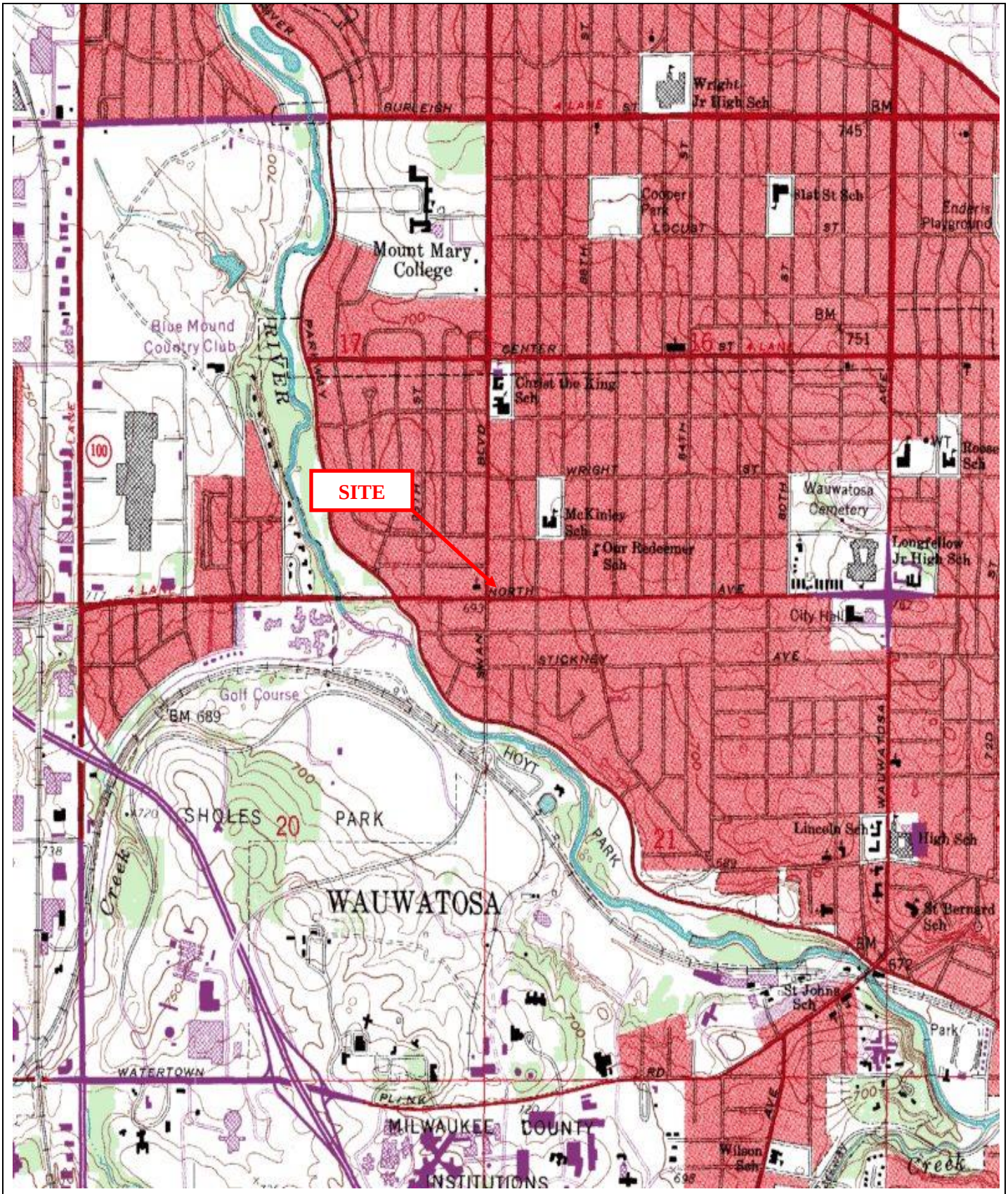
Italicized concentrations exceed NR 140 preventive action limit

--- - no standard established

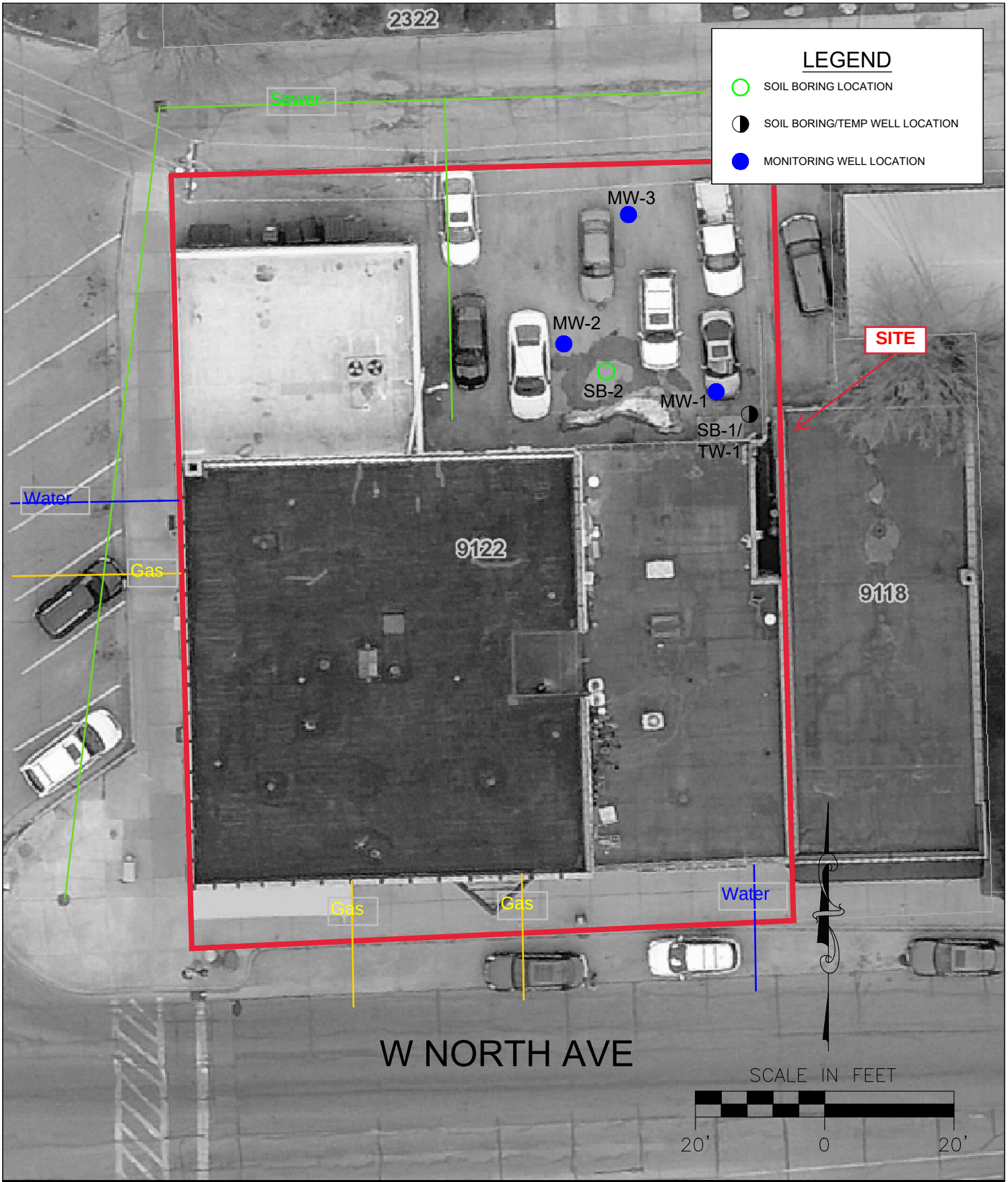
µg/l - micrograms per liter

VOCs - volatile organic compounds

Figures



Source: USGS	Quadrangle Map: Wauwatosa, 2013	FIGURE 1 SITE LOCATION MAP 9122-9130 WEST NORTH AVENUE WAUWATOSA, WISCONSIN	KEY ENGINEERING GROUP LTD. A Division of SET Environmental Inc.
Project: 1710-1972-0003	Date: 3/28/2018		
N W E S	Scale: 1:24000		
	Series: 7.5'		



DESIGNED BY CAT	DATE 3/8/2018
DRAWN BY CAT	PROJECT 1710-1972-0002
APPROVED BY JMD	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 2
SITE AERIAL MAP
JOY CLEANERS
9122-9130 W NORTH AVE
WAUWATOSA, WI

KEY ENGINEERING GROUP LTD.
735 N. WATER STREET, SUITE 510 - MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Mar 08, 2018 - 2:22pm F:\Work in Progress\1710-1972-0002 9122-9130 W N Ave\9122-9130 W N Ave Base.dwg

Attachment 1

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

November 14, 2017

Mr. Scott Wisniewski
First Bank Financial Centre
5555 North Port Washington Road
Glendale, Wisconsin 53217

Via Email: scott.wisniewski@fbfcwi.com

Reference: *Phase I Environmental Site Assessment Report*
9122-9130 West North Avenue
Wauwatosa, Wisconsin

KEY ENGINEERING GROUP, LTD.
File No. 1710-1972-0001

Dear Mr. Wisniewski:

Key Engineering Group, Ltd. (KEY) has completed a *Phase I Environmental Site Assessment (ESA)* for the above-referenced property. This Phase I ESA was performed to assess the environmental condition of commercial real estate, taking into account commonly known and reasonable ascertainable information.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM E1527 of 9122-9130 West North Avenue, Wauwatosa, Wisconsin, the property. Any exceptions to, or deletions from this practice are described in section 7.4 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with this property, except the following:

1. **There has been an active dry cleaner located on the subject site for 9 years. The dry-cleaner uses Perchloroethylene(PCE) for the cleaning operations. The use of this chemical for cleaning represents a concern to the subject site. Dry Cleaners are known to impact the subsurface environment. This represents a REC.**

Please contact us at (414) 224-8300 if you have any questions about the report or need other assistance.

Sincerely,

KEY ENGINEERING GROUP, LTD.

Jason Wuerch
Staff Hydrogeologist

Kenneth Wein, CHMM
Environmental Professional

Enclosure: *Phase I Environmental Site Assessment*

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

9122-9130 West North Avenue
Wauwatosa, Wisconsin

November 14, 2017

PREPARED FOR:

Mr. Scott Wisniewski
Vice President – Commercial Lending
First Bank Financial Centre
5555 North Port Washington Road
Glendale, Wisconsin 53217

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

9122-9130 West North Avenue
Wauwatosa, Wisconsin

November 14, 2017

PREPARED FOR:

Mr. Scott Wisniewski
Vice President – Commercial Lending
First Bank Financial Centre
5555 North Port Washington Road
Glendale, Wisconsin 53217

KEY ENGINEERING GROUP, LTD.

Jason Wuerch
Staff Hydrogeologist

Kenneth Wein, CHMM
Environmental Professional

Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part [40 CFR Part 312]." "I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

Kenneth W. Wein, CHMM

November 14, 2017
Date

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ABBREVIATIONS OF TERMS

AMSL	Above Mean Sea Level
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Deed Restriction Closed Out Sites
BERS	Business Environmental Risks
BRRTS	Bureau of Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CORRACTS	Resource Conservation and Recovery Act Corrective Action
CRS	Closed Remedial Sites
DATCP	Wisconsin Department of Agriculture, Trade and Consumer Protection
ERNS	Emergency Response Notification System
ERP	Environmental Repair Program
ESA	Environmental Site Assessment
GIS	Geographic Information System
HREC	Historical Recognized Environmental Condition
KEY	Key Engineering Group, Ltd.
LUST	Leaking Underground Storage Tank
MANIFEST	Hazardous Waste Manifest Information
NA	Not Applicable
NFRAP	No Further Remedial Action Planned
NPL	National Priority List
OTHER	State database of non-leaking underground storage tank related clean-up actions
RCRA	Resource Conservation Recovery Act
RCRAGN	Resource Conservation Recovery Act Hazardous Material Generator
REC	Recognized Environmental Condition
SHWIMS	Solid and Hazardous Waste Information System
SF	Square Foot
SPILLS	Discharge of Hazardous Substance Spills Database
SWF/LF	Solid Waste Facility/Landfill
TSDF	Transporters, Storage and Disposal
USGS	United States Geological Survey
UST	Underground Storage Tank
UWEX-GNSH	University of Wisconsin Extension and Geologic and Natural History Survey
VCP	Voluntary Party Liability Exemption Sites
VEC	Vapor Encroachment Condition
WDNR	Wisconsin Department of Natural Resources
WDS	Registry of Waste Disposal Sites
WRRSER	Wisconsin Remedial Response Site Evaluation Report

SUMMARY

KEY was retained by Frist Bank Financial Centre to complete a Phase I ESA for the property located at 9122-9130 West North Avenue, Wauwatosa, Wisconsin. The principal findings of the Phase I ESA are as follows:

- The subject site is comprised of one parcel of land identified with the address of 9122-9130 West North Avenue.

- The subject site is located at 43° 03' 38.51" North, 88° 01' 37.69" West.

- The subject site is associated with parcel number 333076800, and occupies a total of approximately 0.26 acres.

- The subject site is developed with two commercial buildings. The building associated with the address 9126 and 9130 West North Avenue is an approximately 5,200 square-foot (SF) two-story concrete block and brick building with a basement. This building is currently occupied by Swan Serv-U Pharmacy and wallpaper store on the first floor, and private residences on the second floor. The building associated with the address 9122 West North Avenue is an approximately 1,900 square-foot (SF) single-story concrete block building. It is currently occupied by Joy Cleaners, dry cleaning. The two buildings are attached. The buildings are serviced by municipal water and sewer, electric, and natural gas. The subject site is bound by Swan Boulevard to the west, a private residence to the north, and Visual Image Photography to the east and West North Avenue to the south.

- The subject site was developed between 1937 and 1950. The west building, associated with the addresses 9126 and 9130 West North Avenue, has been used as a pharmacy since at least 1960. The second floor of this building is private residential spaces. The east building, associated with the address 9122 West North Avenue, was used as a bakery from at least the 1960s till 2005. It was then a deli from 2005 to 2007, a florist in 2008, and has been used as a dry-cleaning facility since 2008.

- Relevant regulatory records associated with the subject site include:

    - There are no regulatory records registered with the subject site.

- Relevant regulatory records associated with the neighboring property includes:

    - There is one UST and one environmental case registered to the adjacent south property (9125 West North Avenue):
        - 1,000-gallon fuel oil tank, closed by removal on September 24, 2004.
        - Not Action Required was issued for the site on January 10, 2005.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM E1527 of 9122-9130 West North Avenue, Wauwatosa, Wisconsin, the property. Any exceptions to, or deletions from this practice are described in section 7.4 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with this property, except the following:

1. **There has been active dry cleaner located on the subject site for 9 years. The dry-cleaner uses Perchloroethylene (PCE) within the dry cleaning operations. The use of this chemical has been known to impact subsurface environments. The use of this chemical represents a REC to the subject site.**

The information contained in this report is confidential in nature. This report is exclusively for the use and benefit of First Bank Financial Centre and is not for the use or benefit of, nor may it be relied upon by, any other person or entity without the written consent of KEY.

1.0 INTRODUCTION

1.1 Purpose

This Phase I ESA, prepared for First Bank Financial Centre was performed on the properties located at 9122-9130 West North Avenue, Wauwatosa, Wisconsin (hereafter referred to as subject site).

The Phase I ESA was conducted to identify potential RECs associated with past or present land use with respect to the former or present use, storage, manufacture and/or disposal of hazardous substances on or near the subject site. Under ASTM E1527-13, a REC is defined as follows:

> *3.2.78 recognized environmental conditions – the presence of likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of future release to the environment. De minimis conditions are not recognized environmental conditions.*

Absent any reason made known by the user of this report as to why this report has been completed, it is assumed that the purpose of this report is to qualify for one of the following CERCLA liability exemptions:

- Bona Fide Prospective Purchaser liability exemption
- Lender liability exemption

1.2 Detailed Scope of Services

The scope of services included the following due diligence:

- Searching standard federal and state environmental record sources within ASTM search distances.
- Reviewing available physiographic information including topographic, pedologic, geologic and hydrogeologic information.
- Obtaining and reviewing historical aerial photographs and historical maps, including Sanborn Fire Insurance Maps (if available).
- Obtaining and reviewing information from local government agencies.
- Reviewing documents provided by client.
- Performing a visual site reconnaissance.
- Conducting interviews.
- Documenting the procedures, findings and conclusions of the Phase I ESA in this report.

Issues considered optional by ASTM E1527-13 such as asbestos-containing materials, radon, lead-based paint, lead in drinking water, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, biological agents and mold were not included in the scope of work.

1.3 Significant Assumptions

It is assumed that the information obtained by others is correct and that this report will be read as a whole by the user.

1.4 Limitations and Exceptions

This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject site, and recognizes reasonable limits of time and cost.

The Phase I ESA was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the findings, opinions and conclusions included in this report.

The findings of this Phase I ESA, to the best of KEY's knowledge, are valid as of the date of this review. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate regulations and standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information. Although care has been taken in compiling this information, KEY disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such information and data.

Data on conditions at the site may vary, depending upon when and where obtained, resulting in possible uncertainty with respect to the interpretation of actual conditions at the site. KEY can offer no assurances and assumes no responsibility for site conditions or activities that were outside the scope of the inquiry requested by First Bank Financial Centre. This report discusses and summarizes recognized environmental conditions in connection with the subject property based on KEY's review of reasonably ascertainable information and site observations made during the performance of this Phase I ESA.

The Phase I ESA did not include sampling of rock, soil, groundwater, surface water, air or on-site substances or materials. It is, therefore, not possible to confirm the presence or absence of toxic or hazardous substances, wastes or materials in the environments associated with the subject site.

The following project specific limitations were encountered during the investigation for this report:

- Portions of the historical aerial photographs were dark and unclear.
- Unable to access a storage closet in the hallway behind Swans' Pharmacy.

1.5 Special Terms and Conditions

The Phase I ESA was performed in accordance with KEY's October 26, 2017 *Phase I ESA Proposal* and ASTM E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

The qualifications of the environmental professionals involved in this assessment are included in Appendix 1.

1.6 User Reliance

The information contained in this report is confidential in nature. This report is exclusively for the use and benefit of First Bank Financial Centre and is not for the use or benefit of, nor may it be relied upon by, any other person or entity without the written consent of KEY.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The subject site is comprised of one parcel of land identified with the address of 9122-9130 West North Avenue, Wauwatosa, Wisconsin. The subject site is located at 43° 03' 38.51" North, 88° 01' 37.69" West, which is in Milwaukee County, Wisconsin. The subject site location is depicted on Figure 1. A site map depicting major site features is presented in Figure 2.

2.2 General Characteristics of the Subject Site and its Vicinity

The subject site consists of a rectangular shaped parcel of land located within a commercial and residential land use area. The subject property is approximately 0.26 acres, and is developed with two commercial buildings.

2.3 Current Use of Property

The property is located in an area zoned as commercial. 9122 West North Avenue is occupied by Joy Cleaners, who is an active dry cleaner. 9126 West North Avenue is occupied by Wallpaper Wallpaper, wallpaper and paint store. 9130 West North Avenue is occupied by Swan Serv-U Pharmacy. There is residential apartments and vacant space on the second floor.

2.4 Descriptions of Structures, Roads, Other Improvements on the Site

The subject site is occupied by two buildings that are attached. The building associated with the address 9126-9130 West North Avenue is an approximately 5,200 square-foot (SF) two story concrete block and brick building with a basement. The building associated with the address 9122 West North Avenue is an approximately 1,900 square-foot (SF) single story concrete block building. It is serviced by municipal water and sewer, electric, and natural gas. There is a small parking lot on the west side of the building, and an alleyway that leads to the rear of the businesses. The subject site is bound by Swan Boulevard to the west and north avenue to the east.

2.5 Current Uses of Adjoining Properties

The subject site is located in an area of commercial and residential land-use activity. Surrounding land-use is described as follows:

North: Residential property – Utilized as a private residence. This does not present the potential for a REC.

South: Mixed commercial/residential use building – Utilized as a Collective Coffee store, Mode clothing store, Firefly Real Estate, and private residences on the second and third stories. This does not present the potential for a REC.

East: Visual Imagery Photography – Utilized as a photography studio. This does not present the potential for a REC.

West: BMO Harris – Utilized as a bank. This does not present the potential for a REC.

3.0 USER-PROVIDED INFORMATION

This section of the report is intended to identify tasks that a user of this Phase I ESA may provide the environmental professional with to assist in determining the presence of a REC. These tasks do not require the technical expertise of an environmental professional and are generally not performed by the environmental professional. Under ASTM E1527-13, these tasks are considered optional, and are the user's responsibility. Tasks that are the responsibility of the user include, but are not limited to:

- Review title and judicial records for environmental liens or activity and use limitations (AUL).
- Provide specialized knowledge or experience.
- Provide actual knowledge of any AUL before the site reconnaissance.
- Communicate any reason for significantly lower purchase price
- Provide commonly known or reasonably ascertainable information
- Provide any other information that may assist the environmental professional with identifying an REC

KEY submitted a *User Questionnaire* to Scott Wisniewski of First Bank Financial Centre, who is the user of this report. A copy of this completed questionnaire is included in Appendix 2. The following summarizes the user's responses to this questionnaire:

3.1 Environmental Liens that are Filed or Recorded Against the Property

The user was not aware of any environmental liens that are filed or recorded against the property.

3.2 Activity and Use Limitations that are In Place or Have Been Filed or Recorded Against The Property

The user was not aware of any activity and use limitations filed or recorded against the property.

3.3 Specialized Knowledge or Experience of the Person Seeking to Qualify for the LLP

The user indicated that they had no specialized knowledge or experience that would provide important information for identifying RECs.

3.4 Relationship of the Purchase Price to the Fair Market Value of the Property if it were Not Contaminated

The user indicated that this question was not applicable, because the building is being refinanced.

3.5 Commonly Known or Reasonably Ascertainable Information About the Property

The user was not aware of reasonably ascertainable information that would be useful in identifying a REC.

3.6 Degree of Obviousness of the Presence or Likely Presence of Contamination at the Property, and the Ability to Detect the Contamination by Appropriate Investigation

The user was not aware of the obvious presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation.

3.7 Other

The user did not provide other information.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

Federal and state environmental database records were reviewed by Environmental Data Resources, Inc. (EDR) to determine if the subject site was listed on any of the existing databases and identify other sites of potential environmental concern within ASTM search distances from the subject site. A copy of the EDR report is included in Appendix 3.

The following findings were listed within ASTM search distances from the subject site. The databases searched a number of sites within respective search distances as summarized below:

Database	Search Distance (mile)	Number of Sites
Federal NPL	1	0
Federal Delisted NPL	0.5	0
Federal CERCLIS	0.5	0
Federal CERCLIS NFRAP	0.5	0
Federal RCRA CORRACTS	1	0
Federal RCRA TSD Facilities	0.5	0
Federal RCRAGN	Property and Adjoining Properties	1
Federal Institutional Control/Engineering Control Registries	Property Only	0
Federal ERNS	Property Only	0
State and Tribal Equivalent NPL	1	0
State and Tribal Equivalent CERCLIS (State Hazardous Waste) - ERP	0.5	3
State and Tribal SWF/LF	0.5	0
State and Tribal Registered LUST/LAST	0.5	44
State and Tribal Registered Storage Tanks (UST/AST)	Property and Adjoining Properties	1
State Institutional Control/Engineering Control Registries	Property Only	0
State and Tribal Voluntary Cleanup Sites	0.5	0
State and Tribal Brownfield Sites	0.5	1
State and Federal OTHER	1	10
	Total	**59**

Due to their proximity to the subject site, the following sites were evaluated as potential RECs:

Site Listed	Database	Pertinent Information	Distance from Subject Site (miles)
Joy Cleaners 9122 West North Avenue	RCRA-CESQG, SHWIMS, FINDS, ECHO, MANIFEST	RCRA-CESQG – Conditionally Exempt Small Quantity Generator of Spend Halogenated Solvents. No violations found. SHWIMS – FID: 341157520. Listed as a Hazardous Waste Generator – Very Small, for Spent Halogenated Solvents. FINDS – Registry ID: 110033624184. First interest date, February 1, 2008ECHO, SHWIMS, and WI Manifest for Spent Halogenated Solvents. ECHO – FRS ID: 110033624184. RCRA, no violations found. MANIFEST - Hazardous Waste Generator – Very Small. Shipped quantities of waste in 2009, 2010, 2011, 2012, 2013, 2014. All of the above listings are associated with the existing dry cleaner which is considered a REC.	Subject Site
9130 West North Avenue Swan Serv-U Pharmacy	SHWIMS	SHWIMS - FID: 241890660. Sharps Collection Station. Key does not consider a Sharps Collection Station to be a REC.	Subject Site
9125 West North Avenue Lockers Florist	UST	UST - Facility ID: 692594. 1,000-gallon fuel oil tank, closed by removal on September 24, 2004. Not Action Required was issued for the site on January 10, 2005. KEY does not consider the removed UST to be a REC because the case was closed by the DNR with no further cases/investigations occurring.	0.037 miles Southeast

File Review for Regulatory Findings On or Immediately Adjacent to the Property

Under ASTM E1527-13, Section 8.2.2.1 *If the property or any of the adjoining properties is identified on one or more of the standard environmental record sources in 8.2.1, pertinent regulatory records associated with the listing should be reviewed in accordance with 8.1.1 through 8.1.8.*

As an alternative to file review, under 8.2.2, *the environmental professional may review files/records from an alternative source(s)for example, on-site records, records from local government agencies, interviews with regulatory officials or other individuals knowledgeable about the environmental condition that resulted in the standard environmental record source listing, etc.*

A review of regulatory records was performed. The source of the records review was EDR. A summary of records reviewed and relevance in identifying a REC, HREC, CREC is presented as follows:

Record Reviewed	**Summary to Finding**	**Finding**
EDR Aerial Photos	The subject site was undeveloped prior to 1937, Sometime between 1937-1950 the building that currently occupies the subject site was built, and has not changed since.	No REC according to these aerial photographs.
EDR City Directories	A listing was given for the property for 2000, 2003, 2005, 2010.	Potential for REC according to city directories due to the presence of a dry cleaners on the subject site in the 2010 and 2014 listings.
Sanborn Fire Insurance Map	All of the buildings on the subject site were used as store fronts in 1950 and 1967.	No REC according to Sanborns.

In KEY's opinion, the remaining sites identified within the ASTM search distances of the subject site are unlikely to pose a significant threat to the soil and/or groundwater quality of the subject site.

4.2 Additional Environmental Record Sources

KEY reviewed an available online database of registered USTs/ASTs to confirm the presence or absence of storage tanks. The review was conducted for the street address of 9122-9130 West North Avenue, Wauwatosa, Wisconsin and its immediate neighboring properties. A review of the available database identified no ASTs and USTs with the subject site and no ASTs and one USTs with the immediate neighbors. A copy of the database search finding is included in Appendix 4.

KEY also reviewed an available online database of discharge sites. A review of the database and map system do not indicate a listing for the subject site or adjacent properties.

A copy of the available discharge database search findings is included in Appendix 4.

4.3 Physical Setting Source(s)

The elevation of the subject site is approximately 700 feet AMSL (USGS, 1990).

The subject site is located in the Milwaukee River watershed (WDNR). The groundwater flow in the vicinity of the subject site is inferred to be southwest, towards a river. It is important to note that local conditions such as pumping wells, buried utilities, tunnels, roadways, building foundations and fill soil can affect local shallow groundwater flow direction.

The subject site is located in Mequon, silt loam, Class C – slow infiltration rates. Shallow groundwater is inferred to be approximately 5 feet below ground surface.

4.4 Historical Use Information on the Property

Under ASTM E1527-13, this assessment must evaluate all reasonably ascertainable historic land use back to the properties first developed use, or back to 1940, whichever is earlier. Sources of information can include interviews with current and/or prior owners, databases such as building permits, assessment records, aerial photos, government officials and other sources of information.

Interviews

KEY interviewed Kyung Jae Lee who is the current owner of the property. Kyung Jae Lee did not know when the subject site was developed. According to the current owner, the other buildings on the subject site have been used as a pharmacy and a wallpaper store for at least 30 years or more. The building that is now occupied by the dry-cleaning store was a flower shop when it was purchased by Mr. Lee in 2008. Mr. Lee did not have the contact information for the previous owner.

Existing historical aerial photographs obtained from EDR (1937, 1950, 1955, 1963, 1969, 1979, 1980, 1986, 1992, 2000, 2005, 2008, and 2010) were reviewed to identify prior land use and significant historical changes of the subject site and surrounding area. Aerial photos are presented in Appendix 5.

The summary of known or suspected land use activity is presented as follows.

DATE	INFERRED LAND USE ACTIVITY	SOURCE OF INFORMATION
1937	*Subject Site:* The subject site was undeveloped *North:* Property is undeveloped *South:* Building present on property *East:* Property is undeveloped *West:* Property is undeveloped, possible farm field.	EDR
1950	*Subject Site:* Building now present on subject site. *North:* Building present on property, appears to be residential. *South:* No major change. *East:* Building now present. *West:* Building now present.	EDR
1955	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
1963	*Subject Site:* No major change. *North:* No major change. *South:* Site has been redeveloped, unclear as to what buildings are present. *East:* No major change. *West:* No major change.	EDR

DATE	INFERRED LAND USE ACTIVITY	SOURCE OF INFORMATION
1969	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
1979	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
1980	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
1986	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR

DATE	INFERRED LAND USE ACTIVITY	SOURCE OF INFORMATION
1992	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
2000	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
2005	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR
2008	*Subject Site:* No major change. *North:* No major change. *South:* Existing building has been torn down, new building put in place. *East:* No major change. *West:* No major change.	EDR

DATE	INFERRED LAND USE ACTIVITY	SOURCE OF INFORMATION
2010	*Subject Site:* No major change. *North:* No major change. *South:* No major change. *East:* No major change. *West:* No major change.	EDR

4.5 Sanborn Fire Insurance Maps

A search for historical Sanborn Fire Insurance maps was conducted by EDR for the subject site.

Sanborn map coverage was available for the subject site. Observations of site and surrounding land-use activities as follows:

YEAR	SUBJECT SITE	NEARBY PROPERTIES	POTENTIAL FOR REC
1950	All buildings on the subjects site are stores	North: Dwelling with a Garage South: Greenhouse East: Flat West: Our Redeemer Evangelical Lutheran Church	No potential for a REC
1967	All buildings on the subjects site are stores	North: Dwelling with a Garage South: Greenhouse East: Flat West: Our Redeemer Evangelical Lutheran Church	No potential for a REC

4.6 Local Government Records

KEY visited the City of Wauwatosa building inspector's office to review available building permit/inspection records maintained by the municipality for the subject site. Building inspection records are presented in Appendix 6.

- The files maintained at the building inspection office suggest the potential presence of a REC associated with the subject site because of the presence of the dry-cleaning facility.

KEY contacted the City of Wauwatosa fire department to inquire whether fire response or records were present for the subject site. A phone log of the inquiry is presented in Appendix 6.

- Fire department records do not suggest the potential presence of a REC associated with the subject site.

4.7 City Directories

KEY reviewed city directories maintained at the EDR for the subject site. Historic Directories were only available for 2000 through 2014. A summary of the directory search is provided in the following table:

YEAR	LISTING	ADDRESS
2000	Heinrichs Bakery	9124 West North Avenue
	Flame Safe Products	9126 West North Avenue
	Wolkos Advertising	9128 West North Avenue
	Serv U Pharmacies	9130 West North Avenue
	Swan Serv U Pharmacy	9130 West North Avenue
2003	Heinrichs Home Bakery	9124 West North Avenue
	Wallpaper	9126 West North Avenue
	Not Verified	9128 West North Avenue
	Swan Serv U Pharmacy	9130 West North Avenue
2005	Sopranos Sub Club and Deli	9124 West North Avenue
	Wallpaper	9126 West North Avenue
	Harwood Pharmacy	9130 West North Avenue
2010	Joy Cleaners	9122 West North Avenue
	Wallpaper	9126 West North Avenue
	Harwood Pharmacy	9130 West North Avenue
2014	Joy Cleaners	9122 West North Avenue
	Wallpaper	9126 West North Avenue
	Hayward Pharmacy	9130 West North Avenue

A copy of the City Directories is presented in Appendix 6.

- The observed types of prior land use activities inferred by these directories suggest the potential presence of a REC associated with the subject site. A description of the record and rationale is as follows:

    - In 2010 and 2014 the building associated with the address 9122 West North Avenue on the subject site was used a dry cleaner, and this presents the potential for a REC.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

A reconnaissance of the subject site was conducted by a representative of KEY (Jason Wuerch) on November 8, 2017. The site reconnaissance consisted of a walkthrough of the accessible areas of the subject site. KEY personnel were escorted during the site reconnaissance by the owner of the subject site, Kyung Jae Lee. A digital camera was used to document the walkthrough. Select photos are included in Appendix 8.

5.2 General Site Setting

The following is a summary of general site reconnaissance observations:

General Item	Description
Weather Conditions	40 Degrees Fahrenheit
Ground Surfaces	Ground surface was unobstructed
Buildings/Structures	One two story building with basement, and one single story building.
Surface Water	Surface water was not observed.

General Use of Subject Site – The subject site is currently used as a dry cleaners, pharmacy, wallpaper and paint store, and private residence.

5.3 Exterior Observations

The subject site is currently utilized for commercial businesses with residences above. The subject site is occupied with 2 buildings, 2 access roads, 1 parking lot, and no green space.

BUILDINGS – The buildings are made of brick and concrete block. The buildings are serviced by no loading docks, with downward sloping concrete catch basins in front of the building that discharge to North avenue. Exterior observations as follows:

- Building Utilities – The buildings are serviced with municipal sewer and water, electric, and natural gas.
- Loading Docks – There are no loading docks on the subject site.
- Transformer – Two pole mounted transformers exist on the northwest corner of the property, and three pole mounted transformers exist on the northeast corner of the property
- Roof Drainage – There are three roof drains on the north side of the building that drain into the alley way
- USTs/ASTs – No indication of potential fill or vent pipes were observed to suggest USTs/ASTs to be present.

- Waste Storage – Three Dumpsters are located on the north side of the building.
- Chemical Storage – Two 30-gallon plastic drums are stored on the east side of the building in a recessed alleyway. They are both filled with waste from the dry cleaners. One is filled with used Perchloroethylene, and the other is filled with used filters from the dry-cleaning machine.
- Surface Stains Near Building – Surface staining was seen under the used Perchloroethylene drums and in the alley way.

OUTBUILDINGS - No outbuildings were present.

ACCESS ROADS – Two access roads service the facility. The access roads enter the subject site from west and south, and are constructed of concrete. The roadway and adjacent ditches appeared free of staining.

PARKING LOTS – One parking lot services the facility. The parking lot is located on the west side of the building, storm water drains by gravity to Swan boulevard. The storm water outfalls appeared free of staining. The parking lot is constructed of asphalt. The general condition of the parking lot appeared free of staining.

VACANT OR FARMED FIELDS - There on no vacant areas on the property.

WOODED LANDS – There are no wooded lands on the property.

5.4 Interior Observations

General Use of Building – The building is currently used as a dry cleaners, pharmacy, wallpaper and paint store, and private residence.

Chemical and Waste Storage – The following chemicals and waste are stored at the subject site:

- Chemicals
    - Perchloroethylene is stored at the dry-cleaners. The dry-cleaning machine has approximately 80 gallons inside. There are also two 5-gallon buckets behind the machine.
    - Approximately ten, 1-gallon laundry detergent bottles are stored in the front bathroom of the dry-cleaning facility, along with various other household cleaning products.
- Waste Storage
    - Solid waste – Solid waste is stored inside garbage bins and receptacles inside the facility before being transferred to the waste bins outside.
    - Hazardous waste – Used Perchloroethylene is being generated. It is considered a spent halogenate solvent. The used Perchloroethylene is then transferred to a 30-gallon drum outside.

Surface stains were observed. The floors and walls in the dry cleaners behind the dry-cleaning machine, and in the water heater room were stained with black residue.

Three floor drains were observed at the facility. One floor drain was observed behind the industrial washing machine in the dry-cleaning facility. This drain appeared free of staining. Another floor drain was observed behind the dry-cleaning machine. This floor drain, and the surrounding walls, had dark black residue. There was also a floor drain in the basement with yellow and white staining present around it.

The general appearance of the interior portions of the pharmacy, wallpaper store, and private residences on the subject site were in good condition. The dry-cleaning facility was in good condition, except for the back water heater room, and behind the dry-cleaning machine.

5.5 Adjacent Land Use

Direction	**Name of Business**	**Description of Land-use Activity**
North	Residential property	Private residence
South	Collective Coffee, Mode, Firefly Real Estate, and private residences	Coffee shop, clothing store, real estate, and residences
East	Visual Imagery Photography	A photography studio
West	BMO Harris	Bank

6.0 INTERVIEWS

Subject Site Owner: KEY interviewed Kyung Jae Lee. Kyung Jae Lee identified he has owned the property since 2008. The subject site owner identified that the property has been used as a pharmacy, wallpaper store, dry cleaners, and private residence during their ownership. Chemicals known to be stored or used at the property include Perchloroethylene(PCE), which is stored at the dry-cleaners. The dry-cleaning machine has approximately 80 gallons inside. There are also two 5-gallon buckets behind the machine. Mr. Lee stated that he has 18 gallons of PCE delivered once a year, and 30 gallons of used PCE picked up by the hazardous waste disposal company Safety Kleen every 8 months. Approximately ten, 1-gallon laundry detergent bottles are stored in the front bathroom of the dry-cleaning facility, along with various other household cleaning products. Key request a copy of the shipping manifest for the disposal of the used Perchloroethylene. Mr. Lee contacted Safety Kleen and provided KEY with a copy of the manifest, which can be found in Appendix 7. The subject site owner was not aware of a release of hazardous substances to the ground surface or into structures on the subject site.

Subject Site Manager: Kyung Jae Lee is also the subject site manager.

Past Owners, Operators and Occupants: KEY was unable to get contact information for the previous owners

Local Government Officials: KEY interviewed Doug Spankowski with the Wauwatosa Fire Department. The Fire Department stated that they had no record of any underground storage tanks, hazardous material releases, or response calls to the subject site. The only records that were present relating to the subject site were minor fire code violations. The Fire Department identified that they were not aware of a finding that would constitute a REC.

Others: KEY did not interview any others associated with the subject site.

7.0 FINDINGS AND CONCLUSIONS

7.1 Findings

The principal findings of the Phase I ESA are as follows:

- The subject site is located at 43° 03' 38.51" North, 88° 01' 37.69" West.

- The subject site is associated with parcel number 333076800, and occupies a total of approximately 0.26 acres.

- The site was farmland prior to its development in the 1950's. The subject site buildings appear to be similar to the day there were constructed. The surrounding area is a well developed section of Wauwatosa.

- The subject site is developed with two commercial buildings. The building associated with the address 9130/9126 West North Avenue is an approximately 5,200 square-foot (SF) two story concrete block and brick building with a basement. The building associated with the address 9122 West North Avenue is an approximately 1,900 square-foot (SF) single story concrete block building. It is currently occupied by Joy Cleaners, dry cleaning. The two buildings are attached. Both buildings are serviced by municipal water and sewer, electric, and natural gas. The subject site is bound by Swan Boulevard to the west, a private residence to the north, and Visual Image Photography to the east.

- Relevant regulatory records associated with the subject site include:

    - There are no regulatory records registered with the subject site.

- Relevant regulatory records associated with the neighboring property includes:

    - There is one UST and one environmental case registered to the adjacent south property (9125 West North Avenue):
        - 1,000-gallon fuel oil tank, closed by removal on September 24, 2004.
        - Not Action Required was issued for the site on January 10, 2005.

7.2 Opinions

A Business Environmental Risk (BER) is defined as:

> 3.2.11 Business environmental risk – a risk which can have a material environmental or environmentally-drive impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

- This assessment has revealed no obvious evidence of a BER

A controlled Recognized Environmental Condition (CREC) is defined as:

> 3.2.18 – Controlled Recognized Environmental Condition – a *recognized environmental condition* resulting from a past release of *hazardous substances or petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by a no further action letter or equivalent, or meeting risk-based corrective criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions and *use limitations, institutional controls, or engineered controls*).

- This assessment has revealed no obvious evidence of a CREC

An historic REC (HREC) is defined as:

> 3.2.42 Historical recognized environmental condition – a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineered controls).

- This assessment has revealed no obvious evidence of an HREC

Vapor Encroachment Condition (VEC)

A VEC can be evaluated using ASTM E2600-10 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. A Vapor Encroachment Condition (VEC) is defined as "… *the presence of likely presence of COC vapors in the sub-surface of the Target Property (TP) caused by the release of vapors from contaminated soil or groundwater either on or near the TP as identified by Tier 1 (see Section 8) or Tier 2 (see Section 9 procedures."* Tier 2 screening (Section 9.2) identifies *Plume Test and Critical Distance Determination.* Critical distance is the linear distance in any direction between the nearest edge of the contaminant plume and the nearest building (or proposed building) boundary. Critical distance is defined as follows:

- For petroleum plumes, the critical distance is 30 feet for dissolved phase plume and 100 feet for free phase product.
- For non-petroleum plumes, the critical distance is 100 feet.

Based upon evaluation of known site conditions, KEY concludes the following:

- Given known site conditions, KEY concludes that a VEC is not a risk at this time since there are no known impacts.

7.3 Conclusions

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM E1527 of 9122-9130 West North Avenue, Wauwatosa, Wisconsin, the property. Any exceptions to, or deletions from this practice are described in section 7.4 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with this property, except the following:

1. **There has been active dry cleaner located on the subject site for 9 years. The business uses Perchloroethylene(PCE) within the dry cleaning operations. PCE has been known to cause impacts to the subsurface. The use of the PCE represents a REC to the subject site.**

7.4 Deviations

This assessment has been performed in accordance with ASTM Practice E1527-13. Any exceptions or deletions from these standards are described in Section 1.4 of this report.

8.0 REFERENCES

American Society of Testing and Materials (2013). *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, E1527-13.

Environmental Data Resources, Inc. *Radius Map Report,* Inquiry Number 5094218.2

Environmental Data Resources, Inc. *Sanborn Map Report,* Inquiry Number 5094218.3

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Trotta (1973). *Depth to Bedrock in Wisconsin, L.C*. Trotta and R.D. Cotter, 1973.

United States Geological Survey. 59516997.5 Wauwatosa, WI, *Minute Series (Topographic) Quadrangle Map*, (2013).

University of Wisconsin Extension and Geological and Natural History Survey (1968). *Soils of Wisconsin, University of Wisconsin Extension and Geological and Natural History Survey*. G.F. Hanson, 1968.

University of Wisconsin Extension and Geological and Natural History Survey (1982). *Bedrock Geology Map of Wisconsin. University of Wisconsin Extension and Geologic and Natural History Survey*. M.G. Maudry, Jr., B.A. Brown, and J.K. Greenberg, 1982.

Wisconsin Department of Agriculture, Trade and Consumer Protection. *Database of Registered Aboveground and Underground Storage Tanks*.

Wisconsin Department of Natural Resources. *Database of Wisconsin Department of Natural Resources Activities at Discharge Sites.*

Attachment 2

A Division of SET Environmental Inc.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

December 8, 2017

Mr. Scott Wisniewski
Vice President – Commercial Lending
First Bank Financial Centre
5555 North Port Washington Road
Glendale, Wisconsin 53217 *Via Email: Scott.Wisniewski@fbfcwi.com*

Reference: *Phase II Environmental Site Assessment*
9122-9130 West North Avenue
Wauwatosa, Wisconsin

KEY ENGINEERING GROUP, LTD.
File No. 1710-1972-0002

Dear Mr. Wisniewski:

This letter is to document the results of a *Phase II Environmental Site Assessment* (ESA) conducted at 9122-9130 West North Avenue in Wauwatosa, Wisconsin (subject site) by Key Engineering Group, Ltd. (KEY). A *Phase I ESA* was previously prepared for the subject site where a recognized environmental condition (REC) was identified:

- *There has been active dry cleaner located on the subject site for 9 years. The dry-cleaner uses the hazardous chemical Perchloroethylene(PCE), and this presents the potential for a hazardous release to the environment.*

Based on these findings, KEY completed a Phase II ESA at the subject site. The purpose of the Phase II ESA was to determine if, and to what potential degree, the subject site may be contaminated. The Phase II ESA was conducted in general accordance with KEY's *Phase II Environmental Site Assessment Proposal*.

SITE DESCRIPTION

This Phase II ESA was completed at 9122-9130 West North Avenue, Wauwatosa, Wisconsin. A site map depicting the geographic location is presented as Figure 1. The subject site is approximately 0.26 acres and consists of two buildings. The building associated with the address

9126-9130 West North Avenue is an approximately 5,200 square-foot (SF) two story concrete block and brick building. The building associated with the address 9122 West North Avenue is an approximately 1,900 square-foot (SF) single story concrete block building. A site detail map is presented as Figure 2.

INVESTIGATION LOCATIONS AND PROCEDURES

Two soil probes (SB-1 and SB-2) and one temporary monitoring well were advanced using a direct push drill rig on November 29, 2017. The soil probe and temporary well locations are presented on Figure 2. The soil probes were advanced to depths of twelve feet below ground surface (bgs). Soil samples were collected by driving a steel sampling rod (sampler) with dedicated acetate liners to the desired sampling depth using the hydraulic ram and hammer on the direct push rig.

Soil samples were field screened for the presence of total ionizable volatile vapors using a calibrated photoionization detector (PID). A KEY hydrogeologist monitored the drilling activities and visually screened and described the soil qualities in accordance with the Unified Soil Classification System. Soil descriptions and field screening PID readings were recorded on Soil Boring Logs (WDNR Form 4400-122). The borings were abandoned with hydrated granular bentonite. Soil Boring Logs (WDNR Form 4400-122) and Borehole Filling and Sealing Forms (WDNR Form 3300-005) are included in Attachment 1.

Soil samples were submitted to a WDNR certified laboratory for analysis. Soil samples were analyzed for volatile organic compounds (VOCs) using Method 8260B. Soil samples were selected based on potential for contamination in proximity to the location where waste is stored outside (potential spill location), while the second probe was advanced near a dumpster. Soil samples for laboratory analysis were placed in laboratory supplied containers and transported to the laboratory under proper chain of custody protocols. Laboratory reports are included in Attachment 2.

One of the two soil probes was converted into a temporary well (SB-1/TW-1). The temporary well location is presented on Figure 2. The temporary well was installed using 1-inch diameter polyvinyl chloride (PVC), 0.010-slotted screen and screened from 7 to 12 feet bgs. Due to the slow recharge conditions of local soil, a groundwater sample was unable to be collected within the time constraints of the report. The temporary well was abandoned by removing the screen and filling the hole with bentonite. Borehole Filling and Sealing Forms (WDNR Form 3300-005) are included in Attachment 1.

INVESTIGATION RESULTS

The temporary well and soil probe locations are presented on Figure 2. Soil analytical results are summarized in Table 1. Below is a summary of the soil investigation completed at the subject site.

SB-1/TW-1

Soil probe SB-1 was advanced to 12 feet below ground surface (bgs). The soil probe was advanced to investigate soil near the outside storage of waste drycleaner fluid. Soils encountered at SB-1 consisted generally of brown silt with some clay with no gravel. PID readings ranged from 0.1 to 0.3 parts per million (ppm) in this boring. Two soil samples were collected from the soil column (0-2 feet bgs and 4-6 feet bgs)

and were analyzed for VOCs. Both samples had only one detection of tetrachloroethene of 0.14 mg/kg in the 0-2' sample and 0.8 mg/kg in the 4-6' sample. These concentrations exceed the protection of groundwater RCL.

A temporary monitoring well was installed within this boring. The temporary well was screened from 7 to 12 feet bgs. Due to the tight clay conditions, the well did not recharge in the amount of time given to produce this report. As such, a groundwater sample was unable to be collected.

SB-2

Soil probe SB-2 was advanced to 12 feet bgs. Soils encountered at SB-2 consisted generally of silty clay. PID readings ranged from 0.1 to 0.3 ppm. Two soil samples were collect and submitted (2-4 feet bgs and 6-8 feet bgs) and were analyzed for VOCs. Both of the soil samples had detections of methylene chloride and tetrachloroethene. Methylene Chloride is a laboratory contaminant. The tetrachloroethene exceeded protection of groundwater in both soil samples 0.59 mg/kg from 2-4 feet bgs and 0.43 mg/kg from 6-8 feet bgs.

CONCLUSIONS AND RECOMMENDATIONS

Based upon the investigation data collected during the Phase II ESA studies, the following conclusions and recommendations can be made. There were no soil concentrations detected above any applicable direct contact standards. Methylene Chloride was detected in soil sample SB-2 (2-4) and SB-2 (6-8), this compound is commonly understood to be a laboratory artifact. Tetrachloroethene was detected in both SB-1 soil samples and SB-2 soil samples. All four of the concentrations were above protection of groundwater RCL.

There was no groundwater sample collected, since TW-1 did not recharge in the time frame of the report.

Based on the detections of tetrachloroethene within the soil and since tetrachloroethene is used in dry cleaning activities, it is our opinion that a release had occurred and should be reported to the WDNR in accordance with Wisconsin Spill Statute 292.11. Based upon the data collected during these studies, we suggest further investigation of the groundwater onsite.

KEY can assist in the preparation and submittal of the release notification and can conduct further investigation of the groundwater onsite.

QUALIFICATIONS

This assessment was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report. The findings of this assessment, to the best of knowledge, are valid as of the date of this assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or

appropriate standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this assessment may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Key Engineering Group, Ltd. Although care has been taken by Key Engineering Group, Ltd., in compiling this information, Key Engineering Group, Ltd., disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such in disclaims formation and data.

Please feel free to call if you have any questions regarding this Phase II ESA report.

Sincerely,
KEY ENGINEERING GROUP, LTD.

Chelsea L. Ames
Project Manager

D'Arcy Gravelle, CPG, PG
Principal Hydrogeologist

Attachments

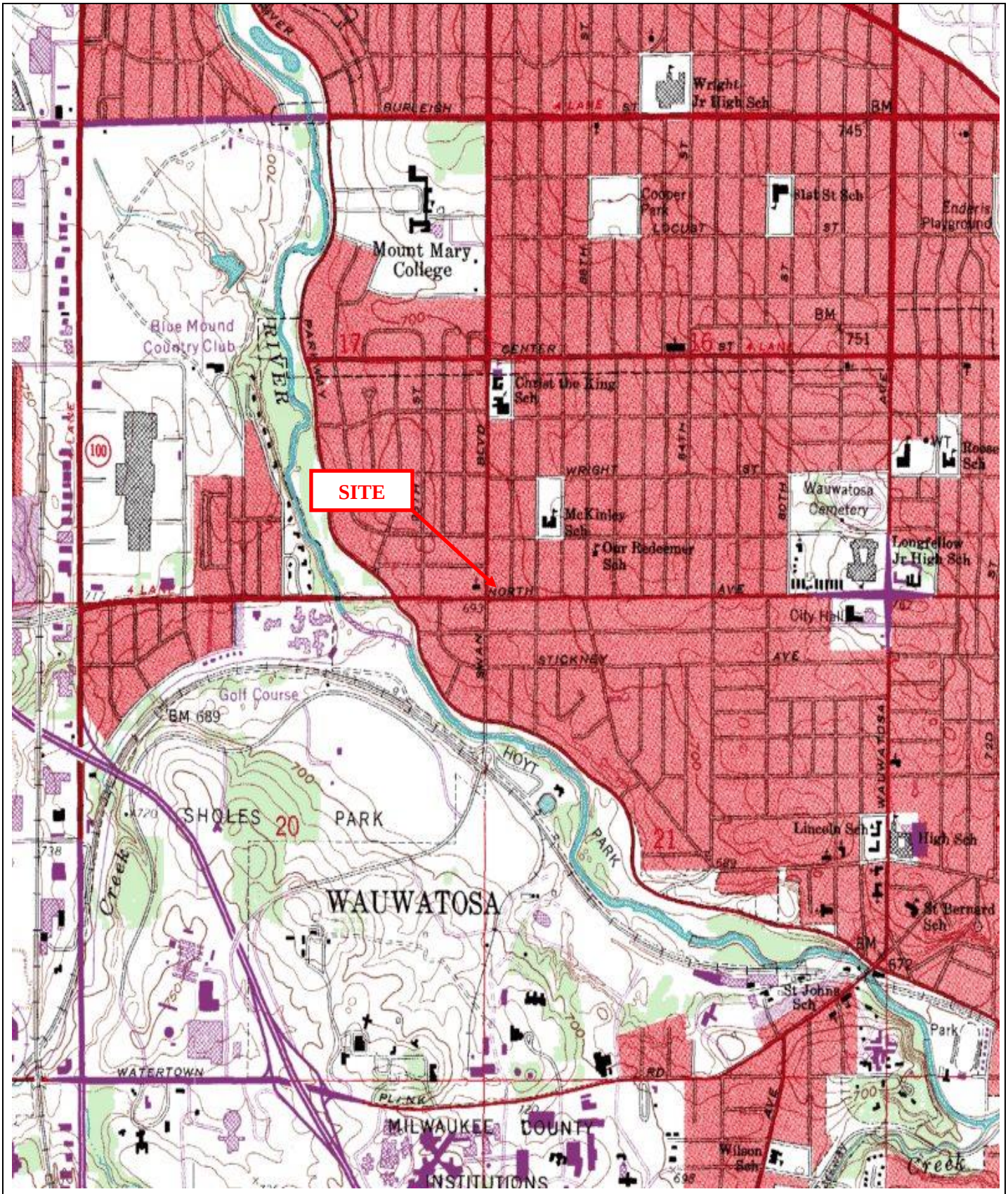
Table 1	Soil Analytical Results
Figure 1	Site Location Map
Figure 2	Site Aerial Map
Attachment 1	Soil Boring Logs and Boring Abandonment Forms
Attachment 2	Soil Laboratory Analytical Reports

Table

PARAMETERS	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	Protection of Groundwater RCL	Background Threshold Value	Sample Identification			
					SB-1		SB-2	
Date Collected					11/29/2017		11/29/2017	
Depth (feet bgs)					0-2	4-6	2-4	6-8
Saturated(s)/Unsaturated(u)					u	u	u	u
Detected VOCs (mg/kg)								
Benzene	1.6	7.07	0.0051	---	<0.025	<0.025	<0.025	<0.025
Bromobenzene	342	679		---	<0.025	<0.025	<0.025	<0.025
Bromochloromethane	216	906		---	<0.025	<0.025	<0.025	<0.025
Bromodichloromethane	0.418	1.83	0.0003	---	<0.025	<0.025	<0.025	<0.025
Bromoform	25.4	113	0.0023	---	<0.025	<0.025	<0.025	<0.025
Bromomethane	9.6	43	0.0051	---	<0.070	<0.070	<0.070	<0.070
n-Butylbenzene	108	108		---	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	145	145		---	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	183	183		---	<0.025	<0.025	<0.025	<0.025
Carbon Tetrachloride	0.916	4.03	0.0039	---	<0.025	<0.025	<0.025	<0.025
Chlorobenzene	370	761		---	<0.025	<0.025	<0.025	<0.025
Chloroethane	---	---	0.2266	---	<0.067	<0.067	<0.067	<0.067
Chloroform	0.454	1.98	0.0033	---	<0.046	<0.046	<0.046	<0.046
Chloromethane	159	669	0.0155	---	<0.025	<0.025	<0.025	<0.025
2-Chlorotoluene	907	907		---	<0.025	<0.025	<0.025	<0.025
4-Chlorotoluene	253	253		---	<0.025	<0.025	<0.025	<0.025
1,2-Dibromo-3-chloropropane	0.008	0.092	0.0002	---	<0.091	<0.091	<0.091	<0.091
Dibromochloromethane	8.28	38.9	0.032	---	<0.025	<0.025	<0.025	<0.025
1,2-Dibromoethane (EDB)	0.05	0.221	0.0000282	---	<0.025	<0.025	<0.025	<0.025
Dibromomethane	34	143		---	<0.025	<0.025	<0.025	<0.025
1,2-Dichlorobenzene	376	376	1.168	---	<0.025	<0.025	<0.025	<0.025
1,3-Dichlorobenzene	297	297	1.1528	---	<0.025	<0.025	<0.025	<0.025
1,4-Dichlorobenzene	3.74	16.4	0.144	---	<0.025	<0.025	<0.025	<0.025
Dichlorodifluoromethane	126	530	3.0863	---	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	---	<0.025	<0.025	<0.025	<0.025
1,2-Dichloroethane	0.652	2.87	0.0028	---	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethene	320	1190	0.005	---	<0.025	<0.025	<0.025	<0.025
cis-1,2-Dichloroethene	156	2340	0.0412	---	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	---	<0.025	<0.025	<0.025	<0.025
1,2-Dichloropropane	0.406	1.78	0.0033	---	<0.025	<0.025	<0.025	<0.025
1,3-Dichloropropane	1490	1490		---	<0.025	<0.025	<0.025	<0.025
2,2-Dichloropropane	191	191		---	<0.025	<0.025	<0.025	<0.025
1,1-Dichloropropene	---	---		---	<0.025	<0.025	<0.025	<0.025
cis-1,3-Dichloropropene	1210	1210	0.0003	---	<0.025	<0.025	<0.025	<0.025
trans-1,3-Dichloropropene	1510	1510	0.0003	---	<0.025	<0.025	<0.025	<0.025
Di-isopropyl ether	2260	2260		---	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	---	<0.025	<0.025	<0.025	<0.025
Hexachlorobutadiene	1.63	7.19		---	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene	---	---		---	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162		---	<0.025	<0.025	<0.025	<0.025
Methylene chloride	61.8	1150	0.0026	---	<0.025	<0.025	0.036J	0.028J
Methyl tert-butyl ether (MTBE)	63.8	282	0.027	---	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	---	<0.040	<0.040	<0.040	<0.040
n-Propylbenzene	264	264	---	---	<0.025	<0.025	<0.025	<0.025
Styrene	867	867	0.22	---	<0.025	<0.025	<0.025	<0.025
1,1,1,2-Tetrachloroethane	2.78	12.3	0.0534	---	<0.025	<0.025	<0.025	<0.025
1,1,2,2-Tetrachloroethane	0.81	3.6	0.0002	---	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	---	0.14	0.8	0.59	0.43
Toluene	818	818	1.1072	---	<0.025	<0.025	<0.025	<0.025
1,2,3-Trichlorobenzene	62.6	934		---	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	---	<0.048	<0.048	<0.048	<0.048
1,1,1-Trichloroethane	640	640	0.1402	---	<0.025	<0.025	<0.025	<0.025
1,1,2-Trichloroethane	1.59	7.01	0.0032	---	<0.025	<0.025	<0.025	<0.025
Trichloroethene (TCE)	1.3	8.41	0.0036	---	<0.025	<0.025	<0.025	<0.025
Trichlorofluoromethane	1230	1230		---	<0.025	<0.025	<0.025	<0.025
1,2,3-Trichloropropane	0.005	0.109	0.0519	---	<0.025	<0.025	<0.025	<0.025
1,2,4-Trimethylbenzene	219	219	---	---	<0.025	<0.025	<0.025	<0.025
1,3,5-Trimethylbenzene	182	182	---	---	<0.025	<0.025	<0.025	<0.025
Trimethylbenzenes	---	---	1.3821	---	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	0.067	2.08	0.0001	---	<0.025	<0.025	<0.025	<0.025
m&p-Xylene	388/390	388/390	---	---	<0.050	<0.050	<0.050	<0.050
o-Xylene	434	434	---	---	<0.025	<0.025	<0.025	<0.025
Xylenes	260	260	3.96	---	<0.075	<0.075	<0.075	<0.075

Notes:
Bold values exceed the NR 720 RCL for protection of groundwater
Boxed values exceed the NR 720 RCL for non-industrial direct contact (applicable 0 to 4 feet bgs)
--- - no standard established
J - Results between laboratory limit of detection and limit of quanititation
bgs - below ground surface
mg/kg - milligrams per kilogram
PAHs - polynuclear aromatic hydrocarbons
VOCs - volatile organic compounds

Figures



Source: USGS	Quadrangle Map: Wauwatosa	FIGURE 1 SITE LOCATION MAP 9122-9130 WEST NORTH AVENUE WAUWATOSA, WISCONSIN
Project: 1710-1972-0002	Date: 12/5/2017	
N W E S	Scale: 1:24000	
	Series: 7.5'	

KEY ENGINEERING GROUP LTD.
A Division of SET Environmental Inc

Source:	Google Earth
Project No:	1710-1972-0002
Date:	December 5, 2017

FIGURE 2
SITE AERIAL MAP
9122-9130 WEST NORTH AVENUE
WAUWATOSA, WISCONSIN

KEY ENGINEERING GROUP LTD.
A Division of SET Environmental Inc.

Attachment 1

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee		

Latitude / Longitude (see instructions) ____ N ____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 9122-9130 W. North Ave

Well City, Village or Town: Wauwatosa | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: | WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: 9122-9130 W. North Ave

Facility ID (FID or PWS):

License/Permit/Monitoring #: SB-1

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner: | State: | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/29/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
—	—

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
—	—

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete ☒ asphalt
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEY Engineering		11/29/2017

Street or Route	Telephone Number
735 N. Water St. Suite 710	(414) 224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		11/30/2017

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee		

Latitude / Longitude (see instructions) ____ N ____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 9122-9130N. North Ave

Well City, Village or Town: Wauwatosa | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: | WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: 9122-9130 W. North Ave

Facility ID (FID or PWS):

License/Permit/Monitoring #: SB-2

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner: | State: | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/29/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☒ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Direct Push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
—	—

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
—	—

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete ☒ Asphalt
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	12	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
KEY Engineering		11/29/2017

Street or Route	Telephone Number
735 N. Water St. Suite 510	(414)224-8300

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Milwaukee	WI	53202		11/30/2017

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: 9122-9130 W. North Ave	License/Permit/Monitoring Number	Boring Number: SB-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Adam Last Name: Sweet Firm: Horizon	Date Drilling Started: 11/29/2017	Date Drilling Completed: 11/29/2017	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E	Lat ° ' " Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		
Facility ID	County: Milwaukee	County Code: 41	Civil Town/City/ or Village: Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42		4	1" asphalt 3" grading material 18" clayey silt, brown, loose, low plast. 20" silt, brown				0.1 0.1 0.3	2 4 4	damp				
	42		8	42" silt, brown trace fine gravel				0.0 0.1 0.1	6 8 10	wet				
	24		12	24" silt, brown trace fine gravel				0.1	12	wet				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: 9122-9130 W. North Ave	License/Permit/Monitoring Number	Boring Number: SB-2	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Adam Last Name: Sweet — Firm: Hanson	Date Drilling Started: 11/29/2017 (mm dd yyyy)	Date Drilling Completed: 11/29/2017 (mm dd yyyy)	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — ____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W	
Facility ID	County: Milwaukee	County Code: 41	Civil Town/City/ or Village: Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30		4	1" asphalt 1" grading material 3" crushed asphalt 31" silt w/ fine sand, brown				0.1 0.1	2 4	damp				
	12		8	12" silt w/ fine sand, brown				0.1 0.2 0.3	4 8 10	damp				
	12		12	12" silt w/ fine sand, brown				0.0	12	wet				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Attachment 2

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 05, 2017

Chelsea Ames
Key Engineering
735 North Water Street
Suite 510
Milwaukee, WI 53202

RE: Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Dear Chelsea Ames:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161665001	**SB-1 (0-2)**	Solid	11/29/17 10:00	12/01/17 08:45
40161665002	**SB-1 (4-6)**	Solid	11/29/17 10:30	12/01/17 08:45
40161665003	**SB-2 (2-4)**	Solid	11/29/17 11:00	12/01/17 08:45
40161665004	**SB-2 (6-8)**	Solid	11/29/17 11:30	12/01/17 08:45
40161665005	**TRIP BLANK**	Water	11/29/17 00:00	12/01/17 08:45

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161665001	**SB-1 (0-2)**	EPA 8260	SMT	64
		ASTM D2974-87	KTS	1
40161665002	**SB-1 (4-6)**	EPA 8260	SMT	64
		ASTM D2974-87	KTS	1
40161665003	**SB-2 (2-4)**	EPA 8260	SMT	64
		ASTM D2974-87	KTS	1
40161665004	**SB-2 (6-8)**	EPA 8260	SMT	64
		ASTM D2974-87	KTS	1
40161665005	**TRIP BLANK**	EPA 8260	HNW	64

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161665001	**SB-1 (0-2)**					
EPA 8260	Tetrachloroethene	0.14	mg/kg	0.070	12/05/17 15:18	
ASTM D2974-87	Percent Moisture	14.8	%	0.10	12/01/17 17:06	
40161665002	**SB-1 (4-6)**					
EPA 8260	Tetrachloroethene	0.80	mg/kg	0.069	12/05/17 16:04	
ASTM D2974-87	Percent Moisture	13.6	%	0.10	12/01/17 17:06	
40161665003	**SB-2 (2-4)**					
EPA 8260	Methylene Chloride	0.036J	mg/kg	0.068	12/05/17 00:56	
EPA 8260	Tetrachloroethene	0.59	mg/kg	0.068	12/05/17 00:56	
ASTM D2974-87	Percent Moisture	11.8	%	0.10	12/01/17 17:06	
40161665004	**SB-2 (6-8)**					
EPA 8260	Methylene Chloride	0.028J	mg/kg	0.064	12/05/17 01:19	
EPA 8260	Tetrachloroethene	0.43	mg/kg	0.064	12/05/17 01:19	
ASTM D2974-87	Percent Moisture	5.6	%	0.10	12/01/17 17:06	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-1 (0-2) **Lab ID: 40161665001** Collected: 11/29/17 10:00 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	12/04/17 07:30	12/05/17 15:18	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	12/04/17 07:30	12/05/17 15:18	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	12/04/17 07:30	12/05/17 15:18	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	12/04/17 07:30	12/05/17 15:18	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	12/04/17 07:30	12/05/17 15:18	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-1 (0-2) **Lab ID: 40161665001** Collected: 11/29/17 10:00 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	79-34-5	W
Tetrachloroethene	**0.14**	mg/kg	0.070	0.029	1	12/04/17 07:30	12/05/17 15:18	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	12/04/17 07:30	12/05/17 15:18	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	12/04/17 07:30	12/05/17 15:18	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 15:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	68-130		1	12/04/17 07:30	12/05/17 15:18	1868-53-7	
Toluene-d8 (S)	112	%	68-149		1	12/04/17 07:30	12/05/17 15:18	2037-26-5	
4-Bromofluorobenzene (S)	105	%	58-141		1	12/04/17 07:30	12/05/17 15:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		12/01/17 17:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-1 (4-6) **Lab ID: 40161665002** Collected: 11/29/17 10:30 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	12/04/17 07:30	12/05/17 16:04	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	12/04/17 07:30	12/05/17 16:04	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	12/04/17 07:30	12/05/17 16:04	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	12/04/17 07:30	12/05/17 16:04	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	12/04/17 07:30	12/05/17 16:04	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-1 (4-6) **Lab ID: 40161665002** Collected: 11/29/17 10:30 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	79-34-5	W
Tetrachloroethene	**0.80**	mg/kg	0.069	0.029	1	12/04/17 07:30	12/05/17 16:04	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	12/04/17 07:30	12/05/17 16:04	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	12/04/17 07:30	12/05/17 16:04	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 16:04	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	68-130		1	12/04/17 07:30	12/05/17 16:04	1868-53-7	
Toluene-d8 (S)	106	%	68-149		1	12/04/17 07:30	12/05/17 16:04	2037-26-5	
4-Bromofluorobenzene (S)	101	%	58-141		1	12/04/17 07:30	12/05/17 16:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.6**	%	0.10	0.10	1		12/01/17 17:06		

REPORT OF LABORATORY ANALYSIS

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

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-2 (2-4) **Lab ID: 40161665003** Collected: 11/29/17 11:00 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	12/04/17 07:30	12/05/17 00:56	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	12/04/17 07:30	12/05/17 00:56	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	12/04/17 07:30	12/05/17 00:56	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	12/04/17 07:30	12/05/17 00:56	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	99-87-6	W
Methylene Chloride	**0.036J**	mg/kg	0.068	0.028	1	12/04/17 07:30	12/05/17 00:56	75-09-2	
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	12/04/17 07:30	12/05/17 00:56	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-2 (2-4) **Lab ID: 40161665003** Collected: 11/29/17 11:00 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	79-34-5	W
Tetrachloroethene	**0.59**	mg/kg	0.068	0.028	1	12/04/17 07:30	12/05/17 00:56	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	12/04/17 07:30	12/05/17 00:56	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	12/04/17 07:30	12/05/17 00:56	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 00:56	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	68-130		1	12/04/17 07:30	12/05/17 00:56	1868-53-7	
Toluene-d8 (S)	108	%	68-149		1	12/04/17 07:30	12/05/17 00:56	2037-26-5	
4-Bromofluorobenzene (S)	84	%	58-141		1	12/04/17 07:30	12/05/17 00:56	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.8**	%	0.10	0.10	1		12/01/17 17:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-2 (6-8) **Lab ID: 40161665004** Collected: 11/29/17 11:30 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	12/04/17 07:30	12/05/17 01:19	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	12/04/17 07:30	12/05/17 01:19	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	12/04/17 07:30	12/05/17 01:19	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	12/04/17 07:30	12/05/17 01:19	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	99-87-6	W
Methylene Chloride	**0.028J**	mg/kg	0.064	0.026	1	12/04/17 07:30	12/05/17 01:19	75-09-2	
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	12/04/17 07:30	12/05/17 01:19	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: SB-2 (6-8) **Lab ID: 40161665004** Collected: 11/29/17 11:30 Received: 12/01/17 08:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	79-34-5	W
Tetrachloroethene	**0.43**	mg/kg	0.064	0.026	1	12/04/17 07:30	12/05/17 01:19	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	12/04/17 07:30	12/05/17 01:19	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	12/04/17 07:30	12/05/17 01:19	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	12/04/17 07:30	12/05/17 01:19	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	68-130		1	12/04/17 07:30	12/05/17 01:19	1868-53-7	1q
Toluene-d8 (S)	101	%	68-149		1	12/04/17 07:30	12/05/17 01:19	2037-26-5	
4-Bromofluorobenzene (S)	80	%	58-141		1	12/04/17 07:30	12/05/17 01:19	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.6**	%	0.10	0.10	1		12/01/17 17:06		

REPORT OF LABORATORY ANALYSIS

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

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: TRIP BLANK **Lab ID: 40161665005** Collected: 11/29/17 00:00 Received: 12/01/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/04/17 15:00	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/04/17 15:00	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/04/17 15:00	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/04/17 15:00	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/04/17 15:00	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/04/17 15:00	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/04/17 15:00	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/04/17 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/04/17 15:00	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/04/17 15:00	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/04/17 15:00	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/04/17 15:00	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/04/17 15:00	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/04/17 15:00	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/04/17 15:00	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/04/17 15:00	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/04/17 15:00	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/04/17 15:00	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/04/17 15:00	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/04/17 15:00	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/04/17 15:00	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/04/17 15:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/04/17 15:00	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/04/17 15:00	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/04/17 15:00	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/04/17 15:00	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/04/17 15:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Sample: TRIP BLANK **Lab ID: 40161665005** Collected: 11/29/17 00:00 Received: 12/01/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		12/04/17 15:00	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/04/17 15:00	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/04/17 15:00	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/04/17 15:00	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/04/17 15:00	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/04/17 15:00	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/04/17 15:00	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/04/17 15:00	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/04/17 15:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		12/04/17 15:00	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/04/17 15:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/04/17 15:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

QC Batch: 276023 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40161665001, 40161665002, 40161665003, 40161665004

METHOD BLANK: 1623823 Matrix: Solid
Associated Lab Samples: 40161665001, 40161665002, 40161665003, 40161665004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	12/04/17 07:48	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	12/04/17 07:48	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	12/04/17 07:48	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	12/04/17 07:48	
1,1-Dichloroethane	mg/kg	<0.018	0.050	12/04/17 07:48	
1,1-Dichloroethene	mg/kg	<0.018	0.050	12/04/17 07:48	
1,1-Dichloropropene	mg/kg	<0.014	0.050	12/04/17 07:48	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	12/04/17 07:48	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	12/04/17 07:48	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	12/04/17 07:48	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	12/04/17 07:48	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	12/04/17 07:48	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	12/04/17 07:48	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	12/04/17 07:48	
1,2-Dichloroethane	mg/kg	<0.015	0.050	12/04/17 07:48	
1,2-Dichloropropane	mg/kg	<0.017	0.050	12/04/17 07:48	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	12/04/17 07:48	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	12/04/17 07:48	
1,3-Dichloropropane	mg/kg	<0.012	0.050	12/04/17 07:48	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	12/04/17 07:48	
2,2-Dichloropropane	mg/kg	<0.013	0.050	12/04/17 07:48	
2-Chlorotoluene	mg/kg	<0.016	0.050	12/04/17 07:48	
4-Chlorotoluene	mg/kg	<0.013	0.050	12/04/17 07:48	
Benzene	mg/kg	<0.0092	0.020	12/04/17 07:48	
Bromobenzene	mg/kg	<0.021	0.050	12/04/17 07:48	
Bromochloromethane	mg/kg	<0.021	0.050	12/04/17 07:48	
Bromodichloromethane	mg/kg	<0.0098	0.050	12/04/17 07:48	
Bromoform	mg/kg	<0.020	0.050	12/04/17 07:48	
Bromomethane	mg/kg	<0.070	0.25	12/04/17 07:48	
Carbon tetrachloride	mg/kg	<0.012	0.050	12/04/17 07:48	
Chlorobenzene	mg/kg	<0.015	0.050	12/04/17 07:48	
Chloroethane	mg/kg	<0.067	0.25	12/04/17 07:48	
Chloroform	mg/kg	<0.046	0.25	12/04/17 07:48	
Chloromethane	mg/kg	<0.020	0.050	12/04/17 07:48	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	12/04/17 07:48	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	12/04/17 07:48	
Dibromochloromethane	mg/kg	<0.018	0.050	12/04/17 07:48	
Dibromomethane	mg/kg	<0.019	0.050	12/04/17 07:48	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	12/04/17 07:48	
Diisopropyl ether	mg/kg	<0.018	0.050	12/04/17 07:48	
Ethylbenzene	mg/kg	<0.012	0.050	12/04/17 07:48	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

METHOD BLANK: 1623823 Matrix: Solid
Associated Lab Samples: 40161665001, 40161665002, 40161665003, 40161665004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	12/04/17 07:48	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	12/04/17 07:48	
m&p-Xylene	mg/kg	<0.034	0.10	12/04/17 07:48	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	12/04/17 07:48	
Methylene Chloride	mg/kg	0.022J	0.050	12/04/17 07:48	
n-Butylbenzene	mg/kg	<0.011	0.050	12/04/17 07:48	
n-Propylbenzene	mg/kg	<0.012	0.050	12/04/17 07:48	
Naphthalene	mg/kg	<0.040	0.25	12/04/17 07:48	
o-Xylene	mg/kg	<0.014	0.050	12/04/17 07:48	
p-Isopropyltoluene	mg/kg	<0.012	0.050	12/04/17 07:48	
sec-Butylbenzene	mg/kg	<0.012	0.050	12/04/17 07:48	
Styrene	mg/kg	<0.0090	0.050	12/04/17 07:48	
tert-Butylbenzene	mg/kg	<0.0095	0.050	12/04/17 07:48	
Tetrachloroethene	mg/kg	<0.013	0.050	12/04/17 07:48	
Toluene	mg/kg	<0.011	0.050	12/04/17 07:48	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	12/04/17 07:48	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	12/04/17 07:48	
Trichloroethene	mg/kg	<0.024	0.050	12/04/17 07:48	
Trichlorofluoromethane	mg/kg	<0.025	0.050	12/04/17 07:48	
Vinyl chloride	mg/kg	<0.021	0.050	12/04/17 07:48	
4-Bromofluorobenzene (S)	%	83	58-141	12/04/17 07:48	
Dibromofluoromethane (S)	%	90	68-130	12/04/17 07:48	
Toluene-d8 (S)	%	96	68-149	12/04/17 07:48	

LABORATORY CONTROL SAMPLE: 1623824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.2	87	61-122	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.6	106	73-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.7	108	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.7	108	63-124	
1,1-Dichloroethene	mg/kg	2.5	2.4	95	53-117	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.6	104	78-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.5	99	49-140	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.7	108	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.6	103	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.4	96	56-135	
1,2-Dichloropropane	mg/kg	2.5	2.6	105	77-122	
1,3-Dichlorobenzene	mg/kg	2.5	2.6	102	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	99	70-130	
Benzene	mg/kg	2.5	2.5	100	66-130	
Bromodichloromethane	mg/kg	2.5	2.3	91	62-135	
Bromoform	mg/kg	2.5	2.2	88	68-130	
Bromomethane	mg/kg	2.5	2.4	95	29-137	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

LABORATORY CONTROL SAMPLE: 1623824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.2	87	57-130	
Chlorobenzene	mg/kg	2.5	2.6	102	70-130	
Chloroethane	mg/kg	2.5	2.5	101	36-144	
Chloroform	mg/kg	2.5	2.4	95	69-115	
Chloromethane	mg/kg	2.5	1.4	57	32-126	
cis-1,2-Dichloroethene	mg/kg	2.5	2.3	92	65-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.5	99	70-130	
Dibromochloromethane	mg/kg	2.5	2.5	100	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.1	42	10-99	
Ethylbenzene	mg/kg	2.5	2.6	104	82-122	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.7	108	70-130	
m&p-Xylene	mg/kg	5	5.3	106	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.8	111	63-134	
Methylene Chloride	mg/kg	2.5	2.5	101	56-123	
o-Xylene	mg/kg	2.5	2.6	106	70-130	
Styrene	mg/kg	2.5	2.7	109	70-130	
Tetrachloroethene	mg/kg	2.5	2.6	103	70-131	
Toluene	mg/kg	2.5	2.5	100	80-120	
trans-1,2-Dichloroethene	mg/kg	2.5	2.5	102	66-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.4	97	68-130	
Trichloroethene	mg/kg	2.5	2.4	98	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.6	104	37-149	
Vinyl chloride	mg/kg	2.5	1.8	72	43-128	
4-Bromofluorobenzene (S)	%			92	58-141	
Dibromofluoromethane (S)	%			97	68-130	
Toluene-d8 (S)	%			100	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623825 1623826

Parameter	Units	40161665004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	<0.025	1.3	1.3	1.1	1.1	85	86	57-123	1	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.3	1.3	1.4	1.4	108	106	73-135	1	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.3	1.3	1.4	1.4	106	106	70-130	1	20	
1,1-Dichloroethane	mg/kg	<0.025	1.3	1.3	1.5	1.4	113	109	63-124	3	20	
1,1-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.4	1.3	102	101	48-117	1	23	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.3	1.3	1.4	1.4	107	106	78-145	1	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.3	1.3	1.2	1.2	91	88	38-168	3	22	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.3	1.3	1.4	1.3	106	102	70-130	4	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	105	107	70-130	2	20	
1,2-Dichloroethane	mg/kg	<0.025	1.3	1.3	1.2	1.3	93	95	56-145	2	20	
1,2-Dichloropropane	mg/kg	<0.025	1.3	1.3	1.3	1.4	102	103	77-123	1	20	
1,3-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	108	104	70-130	3	20	
1,4-Dichlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	105	107	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623825 1623826

Parameter	Units	40161665004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	<0.025	1.3	1.3	1.4	1.3	104	102	65-130	2	20	
Bromodichloromethane	mg/kg	<0.025	1.3	1.3	1.2	1.2	91	89	59-141	2	20	
Bromoform	mg/kg	<0.025	1.3	1.3	1.1	1.1	86	86	59-141	1	20	
Bromomethane	mg/kg	<0.070	1.3	1.3	1.4	1.4	108	109	28-139	1	20	
Carbon tetrachloride	mg/kg	<0.025	1.3	1.3	1.1	1.1	84	84	50-130	1	20	
Chlorobenzene	mg/kg	<0.025	1.3	1.3	1.4	1.4	106	106	70-130	0	20	
Chloroethane	mg/kg	<0.067	1.3	1.3	1.4	1.5	102	112	36-144	9	20	
Chloroform	mg/kg	<0.046	1.3	1.3	1.3	1.3	97	96	68-122	2	20	
Chloromethane	mg/kg	<0.025	1.3	1.3	0.83	0.80	63	60	30-126	4	20	
cis-1,2-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.2	1.2	90	91	63-130	0	20	
cis-1,3-Dichloropropene	mg/kg	<0.025	1.3	1.3	1.3	1.2	95	93	70-130	2	20	
Dibromochloromethane	mg/kg	<0.025	1.3	1.3	1.2	1.2	88	87	66-136	1	20	
Dichlorodifluoromethane	mg/kg	<0.025	1.3	1.3	0.57	0.57	43	43	10-99	1	33	
Ethylbenzene	mg/kg	<0.025	1.3	1.3	1.4	1.3	105	102	80-122	3	20	
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.3	1.3	1.4	1.4	105	106	70-130	1	20	
m&p-Xylene	mg/kg	<0.050	2.6	2.6	2.8	2.8	104	104	70-130	0	20	
Methyl-tert-butyl ether	mg/kg	<0.025	1.3	1.3	1.5	1.5	112	115	63-134	3	20	
Methylene Chloride	mg/kg	0.028J	1.3	1.3	1.5	1.4	109	107	56-127	2	20	
o-Xylene	mg/kg	<0.025	1.3	1.3	1.4	1.3	105	101	70-130	3	20	
Styrene	mg/kg	<0.025	1.3	1.3	1.4	1.4	106	104	70-130	2	20	
Tetrachloroethene	mg/kg	0.43	1.3	1.3	1.8	1.8	102	104	70-131	2	20	
Toluene	mg/kg	<0.025	1.3	1.3	1.3	1.3	100	99	80-120	1	20	
trans-1,2-Dichloroethene	mg/kg	<0.025	1.3	1.3	1.4	1.4	105	103	60-130	2	20	
trans-1,3-Dichloropropene	mg/kg	<0.025	1.3	1.3	1.2	1.2	90	92	68-130	2	20	
Trichloroethene	mg/kg	<0.025	1.3	1.3	1.3	1.3	99	102	70-130	3	20	
Trichlorofluoromethane	mg/kg	<0.025	1.3	1.3	1.5	1.5	113	116	37-149	3	24	
Vinyl chloride	mg/kg	<0.025	1.3	1.3	1.0	0.99	78	75	39-128	4	20	
4-Bromofluorobenzene (S)	%						89	86	58-141			
Dibromofluoromethane (S)	%						96	94	68-130			
Toluene-d8 (S)	%						98	97	68-149			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

QC Batch: 275880 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161665005

METHOD BLANK: 1622691 Matrix: Water
Associated Lab Samples: 40161665005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/04/17 08:06	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/04/17 08:06	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/04/17 08:06	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/04/17 08:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/04/17 08:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/04/17 08:06	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/04/17 08:06	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/04/17 08:06	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/04/17 08:06	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/04/17 08:06	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/04/17 08:06	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/04/17 08:06	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/04/17 08:06	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/04/17 08:06	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/04/17 08:06	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/04/17 08:06	
2-Chlorotoluene	ug/L	<0.50	1.0	12/04/17 08:06	
4-Chlorotoluene	ug/L	<0.21	1.0	12/04/17 08:06	
Benzene	ug/L	<0.50	1.0	12/04/17 08:06	
Bromobenzene	ug/L	<0.23	1.0	12/04/17 08:06	
Bromochloromethane	ug/L	<0.34	1.0	12/04/17 08:06	
Bromodichloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
Bromoform	ug/L	<0.50	1.0	12/04/17 08:06	
Bromomethane	ug/L	<2.4	5.0	12/04/17 08:06	
Carbon tetrachloride	ug/L	<0.50	1.0	12/04/17 08:06	
Chlorobenzene	ug/L	<0.50	1.0	12/04/17 08:06	
Chloroethane	ug/L	<0.37	1.0	12/04/17 08:06	
Chloroform	ug/L	<2.5	5.0	12/04/17 08:06	
Chloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/04/17 08:06	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/04/17 08:06	
Dibromochloromethane	ug/L	<0.50	1.0	12/04/17 08:06	
Dibromomethane	ug/L	<0.43	1.0	12/04/17 08:06	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/04/17 08:06	
Diisopropyl ether	ug/L	<0.50	1.0	12/04/17 08:06	
Ethylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

METHOD BLANK: 1622691 Matrix: Water
Associated Lab Samples: 40161665005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/04/17 08:06	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/04/17 08:06	
m&p-Xylene	ug/L	<1.0	2.0	12/04/17 08:06	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/04/17 08:06	
Methylene Chloride	ug/L	<0.23	1.0	12/04/17 08:06	
n-Butylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	
n-Propylbenzene	ug/L	<0.50	1.0	12/04/17 08:06	
Naphthalene	ug/L	<2.5	5.0	12/04/17 08:06	
o-Xylene	ug/L	<0.50	1.0	12/04/17 08:06	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/04/17 08:06	
sec-Butylbenzene	ug/L	<2.2	5.0	12/04/17 08:06	
Styrene	ug/L	<0.50	1.0	12/04/17 08:06	
tert-Butylbenzene	ug/L	<0.18	1.0	12/04/17 08:06	
Tetrachloroethene	ug/L	<0.50	1.0	12/04/17 08:06	
Toluene	ug/L	<0.50	1.0	12/04/17 08:06	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/04/17 08:06	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/04/17 08:06	
Trichloroethene	ug/L	<0.33	1.0	12/04/17 08:06	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/04/17 08:06	
Vinyl chloride	ug/L	<0.18	1.0	12/04/17 08:06	
4-Bromofluorobenzene (S)	%	99	61-130	12/04/17 08:06	
Dibromofluoromethane (S)	%	97	67-130	12/04/17 08:06	
Toluene-d8 (S)	%	96	70-130	12/04/17 08:06	

LABORATORY CONTROL SAMPLE: 1622692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	45.8	92	70-130	
1,1-Dichloroethane	ug/L	50	50.1	100	71-132	
1,1-Dichloroethene	ug/L	50	47.0	94	75-130	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.4	83	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	70-131	
1,2-Dichloropropane	ug/L	50	47.9	96	80-120	
1,3-Dichlorobenzene	ug/L	50	46.7	93	70-130	
1,4-Dichlorobenzene	ug/L	50	46.4	93	70-130	
Benzene	ug/L	50	50.1	100	73-145	
Bromodichloromethane	ug/L	50	45.7	91	70-130	
Bromoform	ug/L	50	43.2	86	67-130	
Bromomethane	ug/L	50	30.6	61	26-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

LABORATORY CONTROL SAMPLE: 1622692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	47.3	95	70-133	
Chlorobenzene	ug/L	50	48.1	96	70-130	
Chloroethane	ug/L	50	40.3	81	58-120	
Chloroform	ug/L	50	49.3	99	80-121	
Chloromethane	ug/L	50	34.2	68	40-127	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.0	88	70-130	
Dibromochloromethane	ug/L	50	44.2	88	70-130	
Dichlorodifluoromethane	ug/L	50	25.3	51	20-135	
Ethylbenzene	ug/L	50	49.4	99	87-129	
Isopropylbenzene (Cumene)	ug/L	50	51.6	103	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49.0	98	66-143	
Methylene Chloride	ug/L	50	46.4	93	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	47.6	95	82-130	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.3	85	70-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	43.3	87	76-133	
Vinyl chloride	ug/L	50	40.1	80	57-136	
4-Bromofluorobenzene (S)	%			102	61-130	
Dibromofluoromethane (S)	%			98	67-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622693 1622694

Parameter	Units	40161649002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	46.5	51.1	93	102	70-134	9	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	44.7	47.3	89	95	70-130	6	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	43.6	47.5	87	95	70-130	9	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	45.3	50.8	91	102	71-133	11	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.1	47.2	86	94	75-136	9	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.6	49.4	92	98	70-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	40.4	42.9	81	86	63-123	6	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	44.1	49.1	88	98	70-130	11	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	45.1	47.9	90	95	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	46.2	50.8	92	102	70-131	9	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	42.5	48.7	85	97	80-120	14	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	44.7	46.5	89	93	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	44.4	46.4	88	92	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1622693 1622694

Parameter	Units	40161649002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	12.0	50	50	54.3	60.3	85	97	73-145	10	20	
Bromodichloromethane	ug/L	<0.50	50	50	41.2	46.2	82	92	70-130	11	20	
Bromoform	ug/L	<0.50	50	50	41.8	44.2	84	88	67-130	6	20	
Bromomethane	ug/L	<2.4	50	50	30.9	31.8	62	64	26-129	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	44.5	49.2	89	98	70-134	10	20	
Chlorobenzene	ug/L	<0.50	50	50	44.1	48.1	88	96	70-130	9	20	
Chloroethane	ug/L	<0.37	50	50	43.9	41.7	88	83	58-120	5	20	
Chloroform	ug/L	<2.5	50	50	46.0	50.2	92	100	80-121	9	20	
Chloromethane	ug/L	<0.50	50	50	32.9	33.7	66	67	40-128	2	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	43.4	48.2	87	96	70-130	10	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	39.6	44.1	79	88	70-130	11	20	
Dibromochloromethane	ug/L	<0.50	50	50	41.8	45.1	84	90	70-130	8	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	22.4	24.7	45	49	20-146	10	20	
Ethylbenzene	ug/L	<0.50	50	50	44.7	49.3	89	99	87-129	10	20	
Isopropylbenzene (Cumene)	ug/L	0.23J	50	50	47.3	52.0	94	104	70-130	9	20	
m&p-Xylene	ug/L	<1.0	100	100	90.8	99.2	91	99	70-130	9	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.1	49.8	88	100	66-143	12	20	
Methylene Chloride	ug/L	<0.23	50	50	43.7	48.8	87	98	70-130	11	20	
o-Xylene	ug/L	<0.50	50	50	45.8	49.8	92	100	70-130	8	20	
Styrene	ug/L	<0.50	50	50	46.6	50.0	93	100	70-130	7	20	
Tetrachloroethene	ug/L	<0.50	50	50	43.3	46.6	87	93	70-130	7	20	
Toluene	ug/L	<0.50	50	50	44.3	48.4	89	97	82-131	9	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	45.4	50.7	91	101	75-135	11	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	40.1	43.1	80	86	70-130	7	20	
Trichloroethene	ug/L	<0.33	50	50	43.8	50.9	88	102	70-130	15	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	45.2	46.5	90	93	76-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	38.1	39.8	76	80	56-143	4	20	
4-Bromofluorobenzene (S)	%						104	101	61-130			
Dibromofluoromethane (S)	%						103	102	67-130			
Toluene-d8 (S)	%						97	96	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

QC Batch: 275918 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40161665001, 40161665002, 40161665003, 40161665004

SAMPLE DUPLICATE: 1623115

Parameter	Units	40161646001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.2	8.1	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

1q	MeOH leakage had occurred in shipment. Sample aliquot was taken from a glass jar with head space and MeOH preserved in the laboratory.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1710-1972-0002 NORTH AVE
Pace Project No.: 40161665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161665001	**SB-1 (0-2)**	EPA 5035/5030B	276023	EPA 8260	276025
40161665002	**SB-1 (4-6)**	EPA 5035/5030B	276023	EPA 8260	276025
40161665003	**SB-2 (2-4)**	EPA 5035/5030B	276023	EPA 8260	276025
40161665004	**SB-2 (6-8)**	EPA 5035/5030B	276023	EPA 8260	276025
40161665005	**TRIP BLANK**	EPA 8260	275880		
40161665001	**SB-1 (0-2)**	ASTM D2974-87	275918		
40161665002	**SB-1 (4-6)**	ASTM D2974-87	275918		
40161665003	**SB-2 (2-4)**	ASTM D2974-87	275918		
40161665004	**SB-2 (6-8)**	ASTM D2974-87	275918		

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40161665

KR

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	KEY Engineering
Branch/Location:	Milwaukee
Project Contact:	Chelsea Ames
Phone:	414 224 8300
Project Number:	1710-1972-0002
Project Name:	North Ave
Project State:	WI
Sampled By (Print):	Chelsea Ames
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	SAME
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	F	VOCs		1-40mL F, 1-40mL F	
001	SB-1 (0-2)	11/29	1000	S						
002	SB-1 (4-6)	11/29	1030	S						
003	SB-2 (2-4)	11/29	1100	S						
004	SB-2 (6-8)	11/29	1130	S						
	~~TB~~	~~11/29~~		~~DW~~						
005	trip blank				N	B	VOCs		1-40mL B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 12/06/17

Transmit Prelim Rush Results by (complete what you want):
Email #1: cames@keyengineering.com
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/30/17 0800		
CS Logistics	12/1/17 0845		12/1/17 0845

PACE Project No.: 40161665
Receipt Temp = 6.5 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Key Engineering

Project #:

WO#: 40161665

40161665

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #: 605 113 017

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 wet/frozen only

Thermometer Used SR-4 **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 6 /Corr: 6.5 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/1/17
Initials: SSM

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. 12/6/17 TAT SSM 12/1/17
Sufficient Volume:	☐Yes ☒No ☐N/A	8. No MS/MSD WO SSM 12/1/17
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No collect times
-Includes date/time/ID/Analysis Matrix: S/W		SSM 12/1/17
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☒Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 387		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RMR for NM **Date:** 12/1/17

Attachment 3

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: 9122-9130 W. North Ave	License/Permit/Monitoring Number	Boring Number: SB-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Adam Last Name: Sweet Firm: Horizon	Date Drilling Started: 11/29/2017	Date Drilling Completed: 11/29/2017	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E	Lat ° ' " Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		
Facility ID	County: Milwaukee	County Code: 41	Civil Town/City/ or Village: Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42		4	1" asphalt 3" grading material 18" clayey silt, brown, loose, low plast. 20" silt, brown				0.1 0.1 0.3	2 4 4	damp				
	42		8	42" silt, brown trace fine gravel				0.0 0.1 0.1	6 8 10	wet				
	24		12	24" silt, brown trace fine gravel				0.1	12	wet				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: 9122-9130 W. North Ave	License/Permit/Monitoring Number	Boring Number: SB-2	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Adam Last Name: Sweet — Firm: Hanson	Date Drilling Started: 11/29/2017 (mm dd yyyy)	Date Drilling Completed: 11/29/2017 (mm dd yyyy)	Drilling Method: Direct Push
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — ____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E ____ Feet ☐ S ____ Feet ☐ W	
Facility ID	County: Milwaukee	County Code: 41	Civil Town/City/ or Village: Wauwatosa

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30		4	1" asphalt 1" grading material 3" crushed asphalt 31" silt w/ fine sand, brown				0.1 0.1	2 4	damp				
	12		8	12" silt w/ fine sand, brown				0.1 0.2 0.3	4 8 10	damp				
	12		12	12" silt w/ fine sand, brown				0.0	12	wet				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: KEY Engineering

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☒ Other ☐ _____

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
9122-9130 West North Ave		MW 1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam Last Name: Sweet Firm: Horizon	01/22/2018 (m m d d y y y y)	01/22/2018 (m m d d y y y y)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	MW	_____ Feet MSL	_____ Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	40	Wauwatosa

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	Asphalt, 3 inches Base course, followed by moist Brownish/orange silty clay				0.3						
			2	saa				0.3						
			4	@ 5' change to moist Brown clay w trace gravel to 5.5 @ 5.5 sand seam very fine orange sand w some silt.				0.5						
			6	change back to moist to stiff Brown clay to orange				0.5						
			8	saa from 9-10' bgs Sand seam very fine orange sand w some silt.				0.7						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm Key Engineering

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MW-1

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			12	very fine orange Sand w some Silt				0.3						
			14	Sand				0.2						
			16	Sand 16' bgs				0.1						
			18	Flushmount 10' screen DTW Dry TD 15.80										
			20											
			22											
			24											
			26											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ ______________

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
9122-9130 West North Ave		MW 2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: ADAM Last Name: Sweet Firm: Horizon	01/22/2018 (mm dd yyyy)	01/22/2018 (mm dd yyyy)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	MW 2	______ Feet MSL	______ Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane ______________ N, ______________ E
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location
______ Feet ☐ N ☐ S ______ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	40	Wauwatosa

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				asphalt, 3 inches Basecourse moist brown clay				0.3						
			2	change to moist brown to orange very fine sand some clay				0.2						STANDING ▽ water (perched)
			4	@ 5' change to moist brown clay w/trace gravel to 5.5, @ 5.5 sand SEAM very fine orange sand some silt				0.4						
			6	change back to moist to stiff brown to orange clay				0.9						
			8	very fine orange silty sand				1.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
[signature]	Key Engineering

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MW-2

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
				SAA very fine orange...				0.5						
			12	Saa				0.3						
			14	Saa				2.5						
			16	Saa				1.6						
			18	Saa				0.3						
			20	Saa ▽water				0.3						
			22	Saa (AT) 23' gravel & hard pack brown clay to 25' bgs				0.4						
			24					0.2						
			26	(EOB) 15' screen DTW 15.45 TD 25.25										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☑ Other ☐ ______________

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
9122 - 9130 West North Ave		MW 3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: ADAM Last Name: Sweet Firm: Horizon	01/22/2018 (mm dd yyyy)	01/22/2018 (mm dd yyyy)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _	_ _ _	MW 3	______ Feet MSL	______ Feet MSL	8.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane ____________ N, ____________ E
____ 1/4 of ____ 1/4 of Section ____, T ____ N, R ____
Lat ____ ° ____ ' ____ "
Long ____ ° ____ ' ____ "
Local Grid Location
______ Feet ☐ N ☐ S ______ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	40	Wauwatosa

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Asphalt followed By 3 inches basecourse followed By moist brown Clay some gravel				0.1						
			2	moist orange brown Clay w/ some sand trace gravel				0.1						
			4	4-5 SAA change to moist very fine brown to orange sand some silt				0.1						
			6	Saa				0.2						
			8	Saa				0.3						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Key Engineering

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Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
				Saa				0.3						
			12	Saa				0.3						
			14	Saa				0.3						
			16	Saa				0.2						
			18	Saa				0.1						
								0.2						
			20	Saa										
			22	22-23 SAA, (AT) 23' bgs change to gravel w/ some cobble trace brown sand				0.2						
			24	SAA (gravel w/) color change to gray NO ODOR				0.1						
			26	WOB (AT) 25' 15' screen DTW 15.50 TD 25.10										

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: 9122-9130 W North Ave	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. _____ DNR Well ID No. ____
Facility ID _____	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 01/22/2018 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Adam Sweet, Horizon
Distance from Waste/Source ____ ft.	Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
		Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐ _____

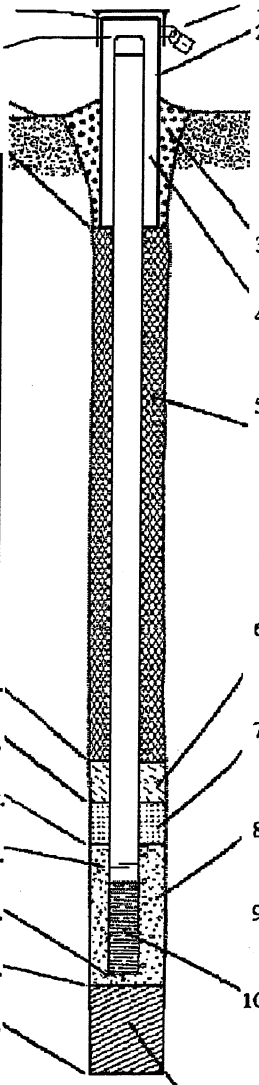
15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe na

17. Source of water (attach analysis, if required):
na

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 4.00 ft.
G. Filter pack, top _____ ft. MSL or 5.00 ft.
H. Screen joint, top _____ ft. MSL or 6.00 ft.
I. Well bottom _____ ft. MSL or 16.00 ft.
J. Filter pack, bottom _____ ft. MSL or 16.00 ft.
K. Borehole, bottom _____ ft. MSL or 16.00 ft.
L. Borehole, diameter 8.37 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. BWSIDley 4000
b. Volume added 0.022 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. BWSIDley 10/20
b. Volume added 0.022 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Key Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: 9122-9130 W North Ave	Local Grid Location of Well: _____ ft. ☐ N. _____ ft. ☐ E. ☐ S. ☐ W.	Well Name: MW 2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/22/2018 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐ E ☐ W	Well Installed By: Name (first, last) and Firm: ADAM Sweet Horizon
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

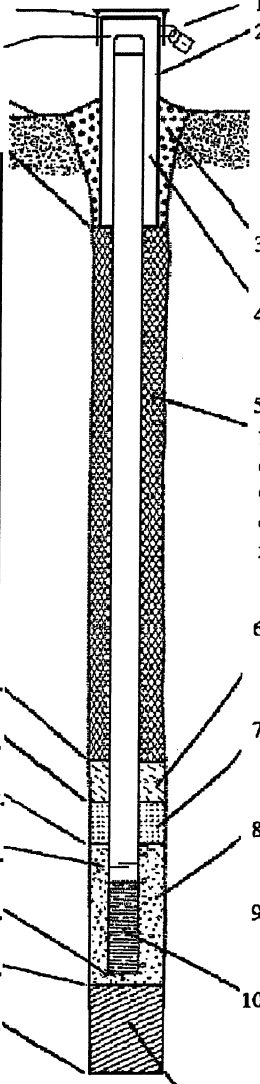
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe: na

17. Source of water (attach analysis, if required):
na

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 9.00 ft.
G. Filter pack, top _____ ft. MSL or 10.00 ft.
H. Screen joint, top _____ ft. MSL or 11.00 ft.
I. Well bottom _____ ft. MSL or 26.00 ft.
J. Filter pack, bottom _____ ft. MSL or 26.00 ft.
K. Borehole, bottom _____ ft. MSL or 26.00 ft.
L. Borehole, diameter 8.37 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. RJ SIDley 4000
b. Volume added 0.022 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. RJ SIDley 10/20
b. Volume added 0.022 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Key Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: 9122-9130 W North Ave	Local Grid Location of Well ☐ N. ☐ S. ft. ☐ E. ☐ W. ft.	Well Name: MW 3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 01/22/2018 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. ☐ E ☐ W	Well Installed By: Name (first, last) and Firm: ADAM Sweet, Horizon
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ft. MSL
B. Well casing, top elevation ft. MSL
C. Land surface elevation ft. MSL
D. Surface seal, bottom ft. MSL or ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

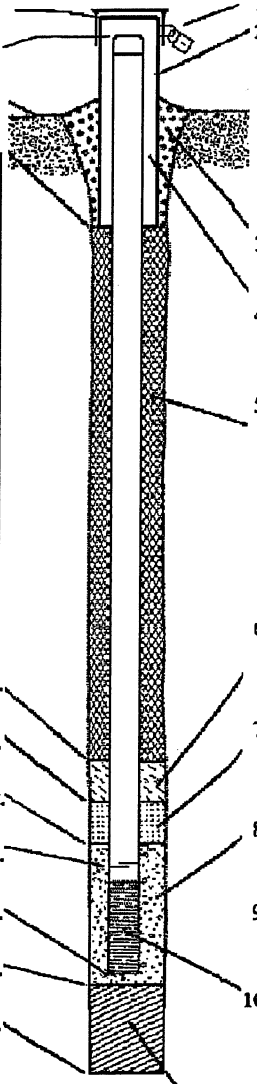
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe: na

17. Source of water (attach analysis, if required):
na

E. Bentonite seal, top ft. MSL or 1.00 ft.
F. Fine sand, top ft. MSL or 9.00 ft.
G. Filter pack, top ft. MSL or 10.00 ft.
H. Screen joint, top ft. MSL or 11.00 ft.
I. Well bottom ft. MSL or 26.00 ft.
J. Filter pack, bottom ft. MSL or 26.00 ft.
K. Borehole, bottom ft. MSL or 26.00 ft.
L. Borehole, diameter 8.37 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe:
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. RUSSIDley 4000
b. Volume added 0.022 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. RUSSIDley 10/20
b. Volume added 0.022 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Key Engineering

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
9122-9130 W North Ave	Milwaukee	MW1
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	__	_____	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 0 min.

4. Depth of well (from top of well casisng) 15.80 ft.

5. Inside diameter of well ___.__ in.

6. Volume of water in filter pack and well casing na gal.

7. Volume of water removed from well na gal.

8. Volume of water added (if any) na gal.

9. Source of water added na

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. Dry ft.	___.__ ft.
Date	b. 01/25/2018 (m m d d y y y y)	01/25/2018 (m m d d y y y y)
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0.5 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Brown	Clear ☒ 20 Turbid ☐ 25 (Describe) Colorless

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	na mg/l	na mg/l
15. COD	na mg/l	na mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Sarah Last Name: Ganswindt
Firm: Key Engineering

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Sarah Ganswindt
Print Name: Sarah Ganswindt
Firm: Key Engineering

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
9122-9130 W North Ave	Milwaukee	MW2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	__	_____	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 25.25 ft.

5. Inside diameter of well __.__ in.

6. Volume of water in filter pack and well casing 9.80 gal.

7. Volume of water removed from well 13.0 gal.

8. Volume of water added (if any) n/a gal.

9. Source of water added n/a

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 15.45 ft.	0.00 ft. Dry 3X
Date	b. 01/25/2018 (m m d d y y y y)	01/25/2018 (m m d d y y y y)
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0.5 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Brown	Colorless

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	n/a mg/l	n/a mg/l
15. COD	n/a mg/l	n/a mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Sarah Last Name: Ganswindt
Firm: Key Engineering

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Sarah Ganswindt
Print Name: Sarah Ganswindt
Firm: Key Engineering

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
9122-9130 W North Ave	Milwaukee	MW 3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	__	_____	___

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☒	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 90 min.

4. Depth of well (from top of well casisng) 25.10 ft.

5. Inside diameter of well ___.__ in.

6. Volume of water in filter pack and well casing 9.65 gal.

7. Volume of water removed from well 14.5 gal.

8. Volume of water added (if any) n/a gal.

9. Source of water added n/a

10. Analysis performed on water added? ☐ Yes ☒ No (If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 15.45 ft.	0.00 ft. DRY 3X
Date	b. 01/25/2018 (m m d d y y y y)	01/25/2018 (m m d d y y y y)
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0.5 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	Brown	Colorless

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	n/a mg/l	n/a mg/l
15. COD	n/a mg/l	n/a mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Sarah Last Name: Ganswindt
Firm: Key Engineering

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Sarah Ganswindt
Print Name: Sarah Ganswindt
Firm: Key Engineering

NOTE: See instructions for more information including a list of county codes and well type codes.

Attachment 4

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 30, 2018

Jason Drews
KEY ENGINEERING GROUP, LTD.
735 N. Water Street, Ste 510
Milwaukee, WI 53202

RE: Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Dear Jason Drews:
Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40163864001	**MW1 2-4**	Solid	01/22/18 00:00	01/24/18 09:30
40163864002	**MW1 12-14**	Solid	01/22/18 00:00	01/24/18 09:30
40163864003	**MW2 2-4**	Solid	01/22/18 00:00	01/24/18 09:30
40163864004	**MW2 12-14**	Solid	01/22/18 00:00	01/24/18 09:30
40163864005	**MW3 2-4**	Solid	01/22/18 00:00	01/24/18 09:30
40163864006	**MW3 12-14**	Solid	01/22/18 00:00	01/24/18 09:30
40163864007	**METHANOL BLANK**	Solid	01/22/18 00:00	01/24/18 09:30

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40163864001	**MW1 2-4**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864002	**MW1 12-14**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864003	**MW2 2-4**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864004	**MW2 12-14**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864005	**MW3 2-4**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864006	**MW3 12-14**	EPA 8260	LAP	64
		ASTM D2974-87	RMV	1
40163864007	**METHANOL BLANK**	EPA 8260	LAP	64

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40163864001	**MW1 2-4**					
EPA 8260	Tetrachloroethene	0.033J	mg/kg	0.070	01/25/18 14:26	
ASTM D2974-87	Percent Moisture	13.8	%	0.10	01/29/18 10:39	
40163864002	**MW1 12-14**					
ASTM D2974-87	Percent Moisture	10.2	%	0.10	01/29/18 12:38	
40163864003	**MW2 2-4**					
EPA 8260	Tetrachloroethene	0.054J	mg/kg	0.069	01/25/18 15:12	
ASTM D2974-87	Percent Moisture	13.2	%	0.10	01/29/18 12:38	
40163864004	**MW2 12-14**					
EPA 8260	Tetrachloroethene	0.10	mg/kg	0.070	01/25/18 15:35	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	01/29/18 12:39	
40163864005	**MW3 2-4**					
ASTM D2974-87	Percent Moisture	11.4	%	0.10	01/29/18 12:39	
40163864006	**MW3 12-14**					
ASTM D2974-87	Percent Moisture	12.7	%	0.10	01/29/18 12:39	

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW1 2-4 **Lab ID: 40163864001** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 14:26	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 14:26	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 14:26	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 14:26	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 14:26	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW1 2-4 **Lab ID: 40163864001** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	79-34-5	W
Tetrachloroethene	**0.033J**	mg/kg	0.070	0.029	1	01/25/18 07:45	01/25/18 14:26	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 14:26	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 14:26	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	01/25/18 07:45	01/25/18 14:26	1868-53-7	
Toluene-d8 (S)	101	%	68-149		1	01/25/18 07:45	01/25/18 14:26	2037-26-5	
4-Bromofluorobenzene (S)	96	%	58-141		1	01/25/18 07:45	01/25/18 14:26	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		01/29/18 10:39		

Sample: MW1 12-14 **Lab ID: 40163864002** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 14:49	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 14:49	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 14:49	67-66-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW1 12-14 **Lab ID: 40163864002** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 14:49	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 14:49	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	100-42-5	W
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 14:49	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	108-67-8	W

REPORT OF LABORATORY ANALYSIS

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

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW1 12-14 **Lab ID: 40163864002** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 14:49	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	68-130		1	01/25/18 07:45	01/25/18 14:49	1868-53-7	
Toluene-d8 (S)	98	%	68-149		1	01/25/18 07:45	01/25/18 14:49	2037-26-5	
4-Bromofluorobenzene (S)	93	%	58-141		1	01/25/18 07:45	01/25/18 14:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.2**	%	0.10	0.10	1		01/29/18 12:38		

Sample: MW2 2-4 **Lab ID: 40163864003** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 15:12	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 15:12	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 15:12	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 15:12	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	107-06-2	W

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW2 2-4 **Lab ID: 40163864003** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 15:12	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	100-42-5	W
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	79-34-5	W
Tetrachloroethene	**0.054J**	mg/kg	0.069	0.029	1	01/25/18 07:45	01/25/18 15:12	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 15:12	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 15:12	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	68-130		1	01/25/18 07:45	01/25/18 15:12	1868-53-7	
Toluene-d8 (S)	103	%	68-149		1	01/25/18 07:45	01/25/18 15:12	2037-26-5	
4-Bromofluorobenzene (S)	99	%	58-141		1	01/25/18 07:45	01/25/18 15:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.2**	%	0.10	0.10	1		01/29/18 12:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW2 12-14 **Lab ID: 40163864004** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 15:35	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 15:35	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 15:35	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 15:35	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 15:35	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW2 12-14 **Lab ID: 40163864004** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	79-34-5	W
Tetrachloroethene	**0.10**	mg/kg	0.070	0.029	1	01/25/18 07:45	01/25/18 15:35	127-18-4	
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 15:35	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 15:35	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	90	%	68-130		1	01/25/18 07:45	01/25/18 15:35	1868-53-7	
Toluene-d8 (S)	94	%	68-149		1	01/25/18 07:45	01/25/18 15:35	2037-26-5	
4-Bromofluorobenzene (S)	89	%	58-141		1	01/25/18 07:45	01/25/18 15:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		01/29/18 12:39		

Sample: MW3 2-4 **Lab ID: 40163864005** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 15:58	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 15:58	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 15:58	67-66-3	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW3 2-4 **Lab ID: 40163864005** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 15:58	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 15:58	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	100-42-5	W
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 15:58	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	108-67-8	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW3 2-4 **Lab ID: 40163864005** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 15:58	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 15:58	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	68-130		1	01/25/18 07:45	01/25/18 15:58	1868-53-7	
Toluene-d8 (S)	110	%	68-149		1	01/25/18 07:45	01/25/18 15:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%	58-141		1	01/25/18 07:45	01/25/18 15:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.4**	%	0.10	0.10	1		01/29/18 12:39		

Sample: MW3 12-14 **Lab ID: 40163864006** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 16:21	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 16:21	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 16:21	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 16:21	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	107-06-2	W

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: MW3 12-14 **Lab ID: 40163864006** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 16:21	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	100-42-5	W
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 16:21	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 16:21	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 16:21	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	68-130		1	01/25/18 07:45	01/25/18 16:21	1868-53-7	
Toluene-d8 (S)	102	%	68-149		1	01/25/18 07:45	01/25/18 16:21	2037-26-5	
4-Bromofluorobenzene (S)	97	%	58-141		1	01/25/18 07:45	01/25/18 16:21	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.7**	%	0.10	0.10	1		01/29/18 12:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: METHANOL BLANK **Lab ID: 40163864007** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	71-43-2	W
Bromobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	108-86-1	W
Bromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	74-97-5	W
Bromodichloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-27-4	W
Bromoform	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-25-2	W
Bromomethane	**<0.070**	mg/kg	0.25	0.070	1	01/25/18 07:45	01/25/18 14:02	74-83-9	W
n-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	104-51-8	W
sec-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	135-98-8	W
tert-Butylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	98-06-6	W
Carbon tetrachloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	56-23-5	W
Chlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	108-90-7	W
Chloroethane	**<0.067**	mg/kg	0.25	0.067	1	01/25/18 07:45	01/25/18 14:02	75-00-3	W
Chloroform	**<0.046**	mg/kg	0.25	0.046	1	01/25/18 07:45	01/25/18 14:02	67-66-3	W
Chloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	74-87-3	W
2-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	95-49-8	W
4-Chlorotoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	106-43-4	W
1,2-Dibromo-3-chloropropane	**<0.091**	mg/kg	0.25	0.091	1	01/25/18 07:45	01/25/18 14:02	96-12-8	W
Dibromochloromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	124-48-1	W
1,2-Dibromoethane (EDB)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	106-93-4	W
Dibromomethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	74-95-3	W
1,2-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	95-50-1	W
1,3-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	541-73-1	W
1,4-Dichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	106-46-7	W
Dichlorodifluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-71-8	W
1,1-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-34-3	W
1,2-Dichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	107-06-2	W
1,1-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-35-4	W
cis-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	156-59-2	W
trans-1,2-Dichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	156-60-5	W
1,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	78-87-5	W
1,3-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	142-28-9	W
2,2-Dichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	594-20-7	W
1,1-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	563-58-6	W
cis-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	10061-01-5	W
trans-1,3-Dichloropropene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	10061-02-6	W
Diisopropyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	108-20-3	W
Ethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	100-41-4	W
Hexachloro-1,3-butadiene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	87-68-3	W
Isopropylbenzene (Cumene)	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	98-82-8	W
p-Isopropyltoluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	99-87-6	W
Methylene Chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-09-2	W
Methyl-tert-butyl ether	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	1634-04-4	W
Naphthalene	**<0.040**	mg/kg	0.25	0.040	1	01/25/18 07:45	01/25/18 14:02	91-20-3	W
n-Propylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	103-65-1	W
Styrene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Sample: METHANOL BLANK **Lab ID: 40163864007** Collected: 01/22/18 00:00 Received: 01/24/18 09:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	630-20-6	W
1,1,2,2-Tetrachloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	79-34-5	W
Tetrachloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	127-18-4	W
Toluene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	108-88-3	W
1,2,3-Trichlorobenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	87-61-6	W
1,2,4-Trichlorobenzene	**<0.048**	mg/kg	0.25	0.048	1	01/25/18 07:45	01/25/18 14:02	120-82-1	W
1,1,1-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	71-55-6	W
1,1,2-Trichloroethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	79-00-5	W
Trichloroethene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	79-01-6	W
Trichlorofluoromethane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-69-4	W
1,2,3-Trichloropropane	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	96-18-4	W
1,2,4-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	95-63-6	W
1,3,5-Trimethylbenzene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	108-67-8	W
Vinyl chloride	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	75-01-4	W
m&p-Xylene	**<0.050**	mg/kg	0.12	0.050	1	01/25/18 07:45	01/25/18 14:02	179601-23-1	W
o-Xylene	**<0.025**	mg/kg	0.060	0.025	1	01/25/18 07:45	01/25/18 14:02	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	83	%	68-130		1	01/25/18 07:45	01/25/18 14:02	1868-53-7	
Toluene-d8 (S)	87	%	68-149		1	01/25/18 07:45	01/25/18 14:02	2037-26-5	
4-Bromofluorobenzene (S)	87	%	58-141		1	01/25/18 07:45	01/25/18 14:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

QC Batch: 279835 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40163864001, 40163864002, 40163864003, 40163864004, 40163864005, 40163864006, 40163864007

METHOD BLANK: 1642070 Matrix: Solid
Associated Lab Samples: 40163864001, 40163864002, 40163864003, 40163864004, 40163864005, 40163864006, 40163864007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	01/25/18 11:43	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	01/25/18 11:43	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	01/25/18 11:43	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	01/25/18 11:43	
1,1-Dichloroethane	mg/kg	<0.018	0.050	01/25/18 11:43	
1,1-Dichloroethene	mg/kg	<0.018	0.050	01/25/18 11:43	
1,1-Dichloropropene	mg/kg	<0.014	0.050	01/25/18 11:43	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	01/25/18 11:43	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	01/25/18 11:43	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	01/25/18 11:43	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	01/25/18 11:43	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	01/25/18 11:43	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	01/25/18 11:43	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	01/25/18 11:43	
1,2-Dichloroethane	mg/kg	<0.015	0.050	01/25/18 11:43	
1,2-Dichloropropane	mg/kg	<0.017	0.050	01/25/18 11:43	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	01/25/18 11:43	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	01/25/18 11:43	
1,3-Dichloropropane	mg/kg	<0.012	0.050	01/25/18 11:43	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	01/25/18 11:43	
2,2-Dichloropropane	mg/kg	<0.013	0.050	01/25/18 11:43	
2-Chlorotoluene	mg/kg	<0.016	0.050	01/25/18 11:43	
4-Chlorotoluene	mg/kg	<0.013	0.050	01/25/18 11:43	
Benzene	mg/kg	<0.0092	0.020	01/25/18 11:43	
Bromobenzene	mg/kg	<0.021	0.050	01/25/18 11:43	
Bromochloromethane	mg/kg	<0.021	0.050	01/25/18 11:43	
Bromodichloromethane	mg/kg	<0.0098	0.050	01/25/18 11:43	
Bromoform	mg/kg	<0.020	0.050	01/25/18 11:43	
Bromomethane	mg/kg	<0.070	0.25	01/25/18 11:43	
Carbon tetrachloride	mg/kg	<0.012	0.050	01/25/18 11:43	
Chlorobenzene	mg/kg	<0.015	0.050	01/25/18 11:43	
Chloroethane	mg/kg	<0.067	0.25	01/25/18 11:43	
Chloroform	mg/kg	<0.046	0.25	01/25/18 11:43	
Chloromethane	mg/kg	<0.020	0.050	01/25/18 11:43	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	01/25/18 11:43	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	01/25/18 11:43	
Dibromochloromethane	mg/kg	<0.018	0.050	01/25/18 11:43	
Dibromomethane	mg/kg	<0.019	0.050	01/25/18 11:43	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	01/25/18 11:43	
Diisopropyl ether	mg/kg	<0.018	0.050	01/25/18 11:43	
Ethylbenzene	mg/kg	<0.012	0.050	01/25/18 11:43	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

METHOD BLANK: 1642070 Matrix: Solid
Associated Lab Samples: 40163864001, 40163864002, 40163864003, 40163864004, 40163864005, 40163864006, 40163864007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	01/25/18 11:43	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	01/25/18 11:43	
m&p-Xylene	mg/kg	<0.034	0.10	01/25/18 11:43	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	01/25/18 11:43	
Methylene Chloride	mg/kg	<0.016	0.050	01/25/18 11:43	
n-Butylbenzene	mg/kg	<0.011	0.050	01/25/18 11:43	
n-Propylbenzene	mg/kg	<0.012	0.050	01/25/18 11:43	
Naphthalene	mg/kg	<0.040	0.25	01/25/18 11:43	
o-Xylene	mg/kg	<0.014	0.050	01/25/18 11:43	
p-Isopropyltoluene	mg/kg	<0.012	0.050	01/25/18 11:43	
sec-Butylbenzene	mg/kg	<0.012	0.050	01/25/18 11:43	
Styrene	mg/kg	<0.0090	0.050	01/25/18 11:43	
tert-Butylbenzene	mg/kg	<0.0095	0.050	01/25/18 11:43	
Tetrachloroethene	mg/kg	<0.013	0.050	01/25/18 11:43	
Toluene	mg/kg	<0.011	0.050	01/25/18 11:43	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	01/25/18 11:43	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	01/25/18 11:43	
Trichloroethene	mg/kg	<0.024	0.050	01/25/18 11:43	
Trichlorofluoromethane	mg/kg	<0.025	0.050	01/25/18 11:43	
Vinyl chloride	mg/kg	<0.021	0.050	01/25/18 11:43	
4-Bromofluorobenzene (S)	%	91	58-141	01/25/18 11:43	
Dibromofluoromethane (S)	%	86	68-130	01/25/18 11:43	
Toluene-d8 (S)	%	97	68-149	01/25/18 11:43	

LABORATORY CONTROL SAMPLE: 1642071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.5	102	61-122	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.4	98	73-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.5	101	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.5	98	63-124	
1,1-Dichloroethene	mg/kg	2.5	2.5	101	53-117	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.3	94	78-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.0	82	49-140	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.4	98	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.6	103	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.4	98	56-135	
1,2-Dichloropropane	mg/kg	2.5	2.5	100	77-122	
1,3-Dichlorobenzene	mg/kg	2.5	2.6	104	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	102	70-130	
Benzene	mg/kg	2.5	2.4	98	66-130	
Bromodichloromethane	mg/kg	2.5	2.5	100	62-135	
Bromoform	mg/kg	2.5	2.1	84	68-130	
Bromomethane	mg/kg	2.5	1.8	72	29-137	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

LABORATORY CONTROL SAMPLE: 1642071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.6	105	57-130	
Chlorobenzene	mg/kg	2.5	2.6	102	70-130	
Chloroethane	mg/kg	2.5	2.0	80	36-144	
Chloroform	mg/kg	2.5	2.4	98	69-115	
Chloromethane	mg/kg	2.5	1.7	66	32-126	
cis-1,2-Dichloroethene	mg/kg	2.5	2.3	94	65-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.3	90	70-130	
Dibromochloromethane	mg/kg	2.5	2.3	91	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.3	50	10-99	
Ethylbenzene	mg/kg	2.5	2.6	105	82-122	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.8	110	70-130	
m&p-Xylene	mg/kg	5	5.2	105	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.4	97	63-134	
Methylene Chloride	mg/kg	2.5	2.3	91	56-123	
o-Xylene	mg/kg	2.5	2.6	105	70-130	
Styrene	mg/kg	2.5	2.7	109	70-130	
Tetrachloroethene	mg/kg	2.5	2.5	100	70-131	
Toluene	mg/kg	2.5	2.6	104	80-120	
trans-1,2-Dichloroethene	mg/kg	2.5	2.5	101	66-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.4	96	68-130	
Trichloroethene	mg/kg	2.5	2.4	98	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.3	92	37-149	
Vinyl chloride	mg/kg	2.5	2.1	84	43-128	
4-Bromofluorobenzene (S)	%			94	58-141	
Dibromofluoromethane (S)	%			93	68-130	
Toluene-d8 (S)	%			95	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1642072 1642073

Parameter	Units	40163864001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.3	95	92	57-123	3	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.4	100	96	73-135	5	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.4	102	98	70-130	4	20	
1,1-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.3	94	92	63-124	2	20	
1,1-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.2	89	82	48-117	9	23	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.4	1.4	1.6	1.5	108	104	78-145	4	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.4	1.4	1.3	1.2	90	81	38-168	11	22	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	93	70-130	4	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.6	1.5	107	105	70-130	2	20	
1,2-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	96	56-145	2	20	
1,2-Dichloropropane	mg/kg	<0.025	1.4	1.4	1.4	1.4	96	99	77-123	3	20	
1,3-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.5	104	103	70-130	1	20	
1,4-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.5	1.4	103	99	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1642072 1642073

Parameter	Units	40163864001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	<0.025	1.4	1.4	1.4	1.3	95	91	65-130	4	20	
Bromodichloromethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	96	59-141	2	20	
Bromoform	mg/kg	<0.025	1.4	1.4	1.3	1.3	88	89	59-141	1	20	
Bromomethane	mg/kg	<0.070	1.4	1.4	0.97	1.0	67	69	28-139	3	20	
Carbon tetrachloride	mg/kg	<0.025	1.4	1.4	1.3	1.3	93	93	50-130	0	20	
Chlorobenzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	99	99	70-130	0	20	
Chloroethane	mg/kg	<0.067	1.4	1.4	1.1	1.0	78	72	36-144	9	20	
Chloroform	mg/kg	<0.046	1.4	1.4	1.4	1.4	95	93	68-122	1	20	
Chloromethane	mg/kg	<0.025	1.4	1.4	0.87	0.87	60	60	30-126	0	20	
cis-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.3	89	91	63-130	2	20	
cis-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.3	1.3	88	88	70-130	0	20	
Dibromochloromethane	mg/kg	<0.025	1.4	1.4	1.3	1.3	92	92	66-136	0	20	
Dichlorodifluoromethane	mg/kg	<0.025	1.4	1.4	0.63	0.65	44	45	10-99	2	33	
Ethylbenzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	99	80-122	0	20	
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.4	1.4	1.5	1.5	102	102	70-130	0	20	
m&p-Xylene	mg/kg	<0.050	2.9	2.9	2.9	2.9	99	100	70-130	1	20	
Methyl-tert-butyl ether	mg/kg	<0.025	1.4	1.4	1.4	1.3	96	93	63-134	3	20	
Methylene Chloride	mg/kg	<0.025	1.4	1.4	1.3	1.3	89	87	56-127	3	20	
o-Xylene	mg/kg	<0.025	1.4	1.4	1.5	1.5	102	103	70-130	1	20	
Styrene	mg/kg	<0.025	1.4	1.4	1.5	1.5	105	105	70-130	1	20	
Tetrachloroethene	mg/kg	0.033J	1.4	1.4	1.4	1.4	93	92	70-131	1	20	
Toluene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	96	80-120	2	20	
trans-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.3	93	93	60-130	0	20	
trans-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.4	1.4	96	97	68-130	1	20	
Trichloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.3	92	92	70-130	1	20	
Trichlorofluoromethane	mg/kg	<0.025	1.4	1.4	1.2	1.2	84	82	37-149	2	24	
Vinyl chloride	mg/kg	<0.025	1.4	1.4	1.0	1.1	72	73	39-128	1	20	
4-Bromofluorobenzene (S)	%						101	104	58-141			
Dibromofluoromethane (S)	%						99	101	68-130			
Toluene-d8 (S)	%						104	105	68-149			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

QC Batch: 279999
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40163864001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1643233

Parameter	Units	40163966004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	16.2	9	10	

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

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QUALITY CONTROL DATA

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

QC Batch: 280017 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40163864002, 40163864003, 40163864004, 40163864005, 40163864006

SAMPLE DUPLICATE: 1643283

Parameter	Units	40164026001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.5	15.6	1	10	

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

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QUALIFIERS

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

W Non-detect results are reported on a wet weight basis.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1710.1972.0003 9122-9130W NORT
Pace Project No.: 40163864

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40163864001	**MW1 2-4**	EPA 5035/5030B	279835	EPA 8260	279838
40163864002	**MW1 12-14**	EPA 5035/5030B	279835	EPA 8260	279838
40163864003	**MW2 2-4**	EPA 5035/5030B	279835	EPA 8260	279838
40163864004	**MW2 12-14**	EPA 5035/5030B	279835	EPA 8260	279838
40163864005	**MW3 2-4**	EPA 5035/5030B	279835	EPA 8260	279838
40163864006	**MW3 12-14**	EPA 5035/5030B	279835	EPA 8260	279838
40163864007	**METHANOL BLANK**	EPA 5035/5030B	279835	EPA 8260	279838
40163864001	**MW1 2-4**	ASTM D2974-87	279999		
40163864002	**MW1 12-14**	ASTM D2974-87	280017		
40163864003	**MW2 2-4**	ASTM D2974-87	280017		
40163864004	**MW2 12-14**	ASTM D2974-87	280017		
40163864005	**MW3 2-4**	ASTM D2974-87	280017		
40163864006	**MW3 12-14**	ASTM D2974-87	280017		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

RMV

40163864

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	Jason Drews
Phone:	414-224-8300
Project Number:	1710.1972.0003
Project Name:	9122-9130 W North Ave
Project State:	WI
Sampled By (Print):	Zach Carswell
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jason Drews
Mail To Company:	Key Engineering
Mail To Address:	435 N Water Milwaukee
Invoice To Contact:	Cassie Kemple
Invoice To Company:	Key Engineering
Invoice To Address:	SAA
Invoice To Phone:	414-224-8300

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air; B = Biota; C = Charcoal; O = Oil; S = Soil; SI = Sludge; W = Water; DW = Drinking Water; GW = Ground Water; SW = Surface Water; WW = Waste Water; WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	Analyses Requested: DW WQT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1 2-4	1/22/18		Soil	N	F	2	2	1-4oz pA	1-40mlVF	
002	MW1 12-14						2	2			
003	MW2 2-4						2	2			
004	MW2 12-14						2	2			
005	MW3 2-4						2	2			
006	MW3 12-14						2	2			
007	Trip Blank			Water			2				

1500

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	1-23-18		
	1/24/18 0930		1/24/18 0930

PACE Project No.: 40163864

Receipt Temp = 4.0 °C

Sample Receipt pH: OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO# : 40163864**

40163864

Client Name: Key Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #: 2466 - 012318

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 N/A **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RoT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 1/24/18
Initials: RS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☐Yes	☑No	☐N/A	2. NO collect Time on COC DS 1/24/18
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☐Yes	☑No	☐N/A	8. NO MS/MSD DS 1/24/18
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RnR DC DM **Date:** 1/24/18

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 31, 2018

Jason Drews
KEY ENGINEERING GROUP, LTD.
735 N. Water Street, Ste 510
Milwaukee, WI 53202

RE: Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Dear Jason Drews:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40164029001	**MW2**	Water	01/25/18 00:00	01/27/18 08:55
40164029002	**MW3**	Water	01/25/18 00:00	01/27/18 08:55
40164029003	**TRIP BLANK**	Water	01/25/18 00:00	01/27/18 08:55

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SAMPLE ANALYTE COUNT

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40164029001	**MW2**	EPA 8260	LAP	64
40164029002	**MW3**	EPA 8260	LAP	64
40164029003	**TRIP BLANK**	EPA 8260	LAP	64

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SUMMARY OF DETECTION

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40164029001	**MW2**					
EPA 8260	Tetrachloroethene	1.2	ug/L	1.0	01/30/18 16:34	
EPA 8260	1,1,1-Trichloroethane	1.0	ug/L	1.0	01/30/18 16:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Sample: MW2 **Lab ID: 40164029001** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 16:34	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/18 16:34	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/18 16:34	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 16:34	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/18 16:34	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/18 16:34	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/18 16:34	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/18 16:34	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/18 16:34	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/18 16:34	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/18 16:34	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/18 16:34	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/18 16:34	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/18 16:34	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/18 16:34	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 16:34	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 16:34	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/18 16:34	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/18 16:34	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/18 16:34	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 16:34	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 16:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/18 16:34	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/18 16:34	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/18 16:34	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/18 16:34	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 16:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Sample: MW2 **Lab ID: 40164029001** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/18 16:34	79-34-5	
Tetrachloroethene	**1.2**	ug/L	1.0	0.50	1		01/30/18 16:34	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 16:34	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 16:34	120-82-1	L2
1,1,1-Trichloroethane	**1.0**	ug/L	1.0	0.50	1		01/30/18 16:34	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/18 16:34	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/18 16:34	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 16:34	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/18 16:34	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/18 16:34	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 16:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		01/30/18 16:34	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		01/30/18 16:34	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/30/18 16:34	2037-26-5	

Sample: MW3 **Lab ID: 40164029002** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:04	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/18 15:04	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/18 15:04	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:04	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:04	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/18 15:04	75-00-3	L1,M0
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/18 15:04	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/18 15:04	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:04	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:04	106-93-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Sample: MW3 **Lab ID: 40164029002** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/18 15:04	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/18 15:04	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/18 15:04	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/18 15:04	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/18 15:04	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 15:04	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 15:04	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:04	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/18 15:04	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/18 15:04	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:04	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 15:04	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/18 15:04	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:04	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/18 15:04	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/18 15:04	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/18 15:04	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 15:04	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:04	120-82-1	L2,M0
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/18 15:04	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/18 15:04	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:04	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:04	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/18 15:04	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		01/30/18 15:04	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		01/30/18 15:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		01/30/18 15:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Sample: TRIP BLANK **Lab ID: 40164029003** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:27	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/30/18 15:27	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/30/18 15:27	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:27	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:27	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/30/18 15:27	75-00-3	L1
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/30/18 15:27	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/30/18 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:27	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:27	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/30/18 15:27	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/30/18 15:27	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/30/18 15:27	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/30/18 15:27	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/30/18 15:27	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 15:27	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/30/18 15:27	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:27	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/30/18 15:27	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/30/18 15:27	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:27	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 15:27	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/30/18 15:27	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/30/18 15:27	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/30/18 15:27	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/30/18 15:27	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:27	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Sample: TRIP BLANK **Lab ID: 40164029003** Collected: 01/25/18 00:00 Received: 01/27/18 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/30/18 15:27	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/30/18 15:27	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/30/18 15:27	120-82-1	L2
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/30/18 15:27	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/30/18 15:27	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:27	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/30/18 15:27	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/30/18 15:27	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/30/18 15:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		01/30/18 15:27	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		01/30/18 15:27	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		01/30/18 15:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

QC Batch: 280046 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40164029001, 40164029002, 40164029003

METHOD BLANK: 1643347 Matrix: Water
Associated Lab Samples: 40164029001, 40164029002, 40164029003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/30/18 11:49	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/30/18 11:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/30/18 11:49	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/30/18 11:49	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/30/18 11:49	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/30/18 11:49	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/30/18 11:49	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/30/18 11:49	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/30/18 11:49	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/30/18 11:49	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/30/18 11:49	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/30/18 11:49	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/30/18 11:49	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/30/18 11:49	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/30/18 11:49	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/30/18 11:49	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/30/18 11:49	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/30/18 11:49	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/30/18 11:49	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/30/18 11:49	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/30/18 11:49	
2-Chlorotoluene	ug/L	<0.50	1.0	01/30/18 11:49	
4-Chlorotoluene	ug/L	<0.21	1.0	01/30/18 11:49	
Benzene	ug/L	<0.50	1.0	01/30/18 11:49	
Bromobenzene	ug/L	<0.23	1.0	01/30/18 11:49	
Bromochloromethane	ug/L	<0.34	1.0	01/30/18 11:49	
Bromodichloromethane	ug/L	<0.50	1.0	01/30/18 11:49	
Bromoform	ug/L	<0.50	1.0	01/30/18 11:49	
Bromomethane	ug/L	<2.4	5.0	01/30/18 11:49	
Carbon tetrachloride	ug/L	<0.50	1.0	01/30/18 11:49	
Chlorobenzene	ug/L	<0.50	1.0	01/30/18 11:49	
Chloroethane	ug/L	<0.37	1.0	01/30/18 11:49	
Chloroform	ug/L	<2.5	5.0	01/30/18 11:49	
Chloromethane	ug/L	<0.50	1.0	01/30/18 11:49	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/30/18 11:49	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/30/18 11:49	
Dibromochloromethane	ug/L	<0.50	1.0	01/30/18 11:49	
Dibromomethane	ug/L	<0.43	1.0	01/30/18 11:49	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/30/18 11:49	
Diisopropyl ether	ug/L	<0.50	1.0	01/30/18 11:49	
Ethylbenzene	ug/L	<0.50	1.0	01/30/18 11:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

METHOD BLANK: 1643347 Matrix: Water
Associated Lab Samples: 40164029001, 40164029002, 40164029003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/30/18 11:49	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/30/18 11:49	
m&p-Xylene	ug/L	<1.0	2.0	01/30/18 11:49	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/30/18 11:49	
Methylene Chloride	ug/L	<0.23	1.0	01/30/18 11:49	
n-Butylbenzene	ug/L	<0.50	1.0	01/30/18 11:49	
n-Propylbenzene	ug/L	<0.50	1.0	01/30/18 11:49	
Naphthalene	ug/L	<2.5	5.0	01/30/18 11:49	
o-Xylene	ug/L	<0.50	1.0	01/30/18 11:49	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/30/18 11:49	
sec-Butylbenzene	ug/L	<2.2	5.0	01/30/18 11:49	
Styrene	ug/L	<0.50	1.0	01/30/18 11:49	
tert-Butylbenzene	ug/L	<0.18	1.0	01/30/18 11:49	
Tetrachloroethene	ug/L	<0.50	1.0	01/30/18 11:49	
Toluene	ug/L	<0.50	1.0	01/30/18 11:49	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/30/18 11:49	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/30/18 11:49	
Trichloroethene	ug/L	<0.33	1.0	01/30/18 11:49	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/30/18 11:49	
Vinyl chloride	ug/L	<0.18	1.0	01/30/18 11:49	
4-Bromofluorobenzene (S)	%	98	61-130	01/30/18 11:49	
Dibromofluoromethane (S)	%	99	67-130	01/30/18 11:49	
Toluene-d8 (S)	%	94	70-130	01/30/18 11:49	

LABORATORY CONTROL SAMPLE: 1643348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	40.1	80	70-130	
1,1,2-Trichloroethane	ug/L	50	42.8	86	70-130	
1,1-Dichloroethane	ug/L	50	49.8	100	71-132	
1,1-Dichloroethene	ug/L	50	56.4	113	75-130	
1,2,4-Trichlorobenzene	ug/L	50	33.1	66	70-130	L2
1,2-Dibromo-3-chloropropane	ug/L	50	38.1	76	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	44.2	88	70-130	
1,2-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichloroethane	ug/L	50	45.4	91	70-131	
1,2-Dichloropropane	ug/L	50	50.7	101	80-120	
1,3-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
Benzene	ug/L	50	47.0	94	73-145	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	41.4	83	67-130	
Bromomethane	ug/L	50	31.3	63	26-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

LABORATORY CONTROL SAMPLE: 1643348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.0	100	70-133	
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	61.1	122	58-120	L1
Chloroform	ug/L	50	50.2	100	80-121	
Chloromethane	ug/L	50	44.7	89	40-127	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.7	95	70-130	
Dibromochloromethane	ug/L	50	43.8	88	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	20-135	
Ethylbenzene	ug/L	50	52.7	105	87-129	
Isopropylbenzene (Cumene)	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	41.1	82	66-143	
Methylene Chloride	ug/L	50	57.5	115	70-130	
o-Xylene	ug/L	50	51.2	102	70-130	
Styrene	ug/L	50	51.8	104	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	53.0	106	82-130	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	75-132	
trans-1,3-Dichloropropene	ug/L	50	41.4	83	70-130	
Trichloroethene	ug/L	50	54.7	109	70-130	
Trichlorofluoromethane	ug/L	50	57.7	115	76-133	
Vinyl chloride	ug/L	50	55.7	111	57-136	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			94	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1644146 1644147

Parameter	Units	40164029002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.0	49.9	102	100	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	42.5	44.2	85	88	70-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	43.8	43.8	88	88	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	51.8	50.0	104	100	71-133	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	58.2	56.4	116	113	75-136	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	32.3	32.5	65	65	70-130	1	20	M0
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	39.2	40.6	78	81	63-123	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	44.0	45.2	88	90	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	45.9	46.3	92	93	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.6	46.8	97	94	70-131	4	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	50.8	51.9	102	104	80-120	2	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.8	47.1	94	94	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.0	47.4	94	95	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1644146 1644147

Parameter	Units	40164029002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	49.0	48.1	98	96	73-145	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	54.3	53.7	109	107	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	42.4	44.0	85	88	67-130	4	20	
Bromomethane	ug/L	<2.4	50	50	37.4	36.0	75	72	26-129	4	20	
Carbon tetrachloride	ug/L	<0.50	50	50	52.6	51.8	105	104	70-134	2	20	
Chlorobenzene	ug/L	<0.50	50	50	52.5	54.2	105	108	70-130	3	20	
Chloroethane	ug/L	<0.37	50	50	62.6	60.0	125	120	58-120	4	20	M0
Chloroform	ug/L	<2.5	50	50	53.2	50.9	106	102	80-121	4	20	
Chloromethane	ug/L	<0.50	50	50	47.7	45.1	95	90	40-128	6	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.4	47.8	101	96	70-130	5	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.1	48.7	100	97	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	45.1	46.5	90	93	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	44.2	39.1	88	78	20-146	12	20	
Ethylbenzene	ug/L	<0.50	50	50	51.3	51.8	103	104	87-129	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	50.3	51.4	101	103	70-130	2	20	
m&p-Xylene	ug/L	<1.0	100	100	103	105	103	105	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.4	42.1	89	84	66-143	5	20	
Methylene Chloride	ug/L	<0.23	50	50	59.2	57.7	118	115	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	49.7	49.8	99	100	70-130	0	20	
Styrene	ug/L	<0.50	50	50	49.4	49.8	99	100	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.8	52.1	100	104	70-130	5	20	
Toluene	ug/L	<0.50	50	50	52.1	53.3	104	107	82-131	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	51.8	51.2	104	102	75-135	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.5	44.4	89	89	70-130	0	20	
Trichloroethene	ug/L	<0.33	50	50	54.6	55.9	109	112	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	60.5	56.9	121	114	76-150	6	20	
Vinyl chloride	ug/L	<0.18	50	50	60.5	53.7	121	107	56-143	12	20	
4-Bromofluorobenzene (S)	%						100	101	61-130			
Dibromofluoromethane (S)	%						98	96	67-130			
Toluene-d8 (S)	%						96	99	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 9122.9130 WEST NORTH AVE
Pace Project No.: 40164029

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40164029001	**MW2**	EPA 8260	280046		
40164029002	**MW3**	EPA 8260	280046		
40164029003	**TRIP BLANK**	EPA 8260	280046		

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

4016 4029

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	JASON DREWS
Phone:	414-224-8300
Project Number:	
Project Name:	9122.9130 West North Ave
Project State:	WI
Sampled By (Print):	SARA GANSWINDT
Sampled By (Sign):	Sara Ganswindt
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	JASON DREWS
Mail To Company:	Key Engineering
Mail To Address:	135 N Water St Milwaukee WI
Invoice To Contact:	CASSIE HAUPT
Invoice To Company:	Key Engineering
Invoice To Address:	SAME
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW2	1/25/17		GW	N	B	X		3-40ml v3	
002	MW3	↓		GW			X		↓	
003	TRIP BLANK	↓		LAB SUPPLIED			X		1-40ml v3	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Sara Ganswindt	1/26/18 1130	Mary Fannin	1/26/18 1130
Mary Fannin	1/26/18 1215		
CS Logistics	1/27/18 0855	DSams pace	1/27/18 0855

PACE Project No. 4016 4029

Receipt Temp = 3 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 8.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: WO#: 40164029

40164029

Client Name: Key

Courier: ☐ Fed Ex ☐ UPS ☑ Client ☐ Pace Other: CS Logistics

Tracking #:

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-29 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 /Corr: 3 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 1/27/18
Initials: DS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: DS 1/27/18	☑Yes ☐No ☐N/A	2. No collect time on COC DS 1/27/18
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8. NO MS/MSD DS 1/27/18
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: DS 1/27/18	☑Yes ☐No ☐N/A	12. All Samples - no collect time on client label DS 1/27/18
-Includes date/time/ID/Analysis Matrix: GW		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	14.
Trip Blank Present:	☐Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 394		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AL for DM **Date:** 1/27/18

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 14, 2018

Jason Drews
KEY ENGINEERING GROUP, LTD.
735 N. Water Street, Ste 510
Milwaukee, WI 53202

RE: Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Dear Jason Drews:
Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.
Toni Schoen, KEY ENGINEERING GROUP, LTD.

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CERTIFICATIONS

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165742001	**MW3**	Water	03/08/18 00:00	03/10/18 08:15
40165742002	**MW2**	Water	03/08/18 00:00	03/10/18 08:15
40165742003	**DUPLICATE 1**	Water	03/08/18 00:00	03/10/18 08:15
40165742004	**TRIP**	Water	03/08/18 00:00	03/10/18 08:15

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SAMPLE ANALYTE COUNT

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40165742001	**MW3**	EPA 8260	MDS	64
40165742002	**MW2**	EPA 8260	MDS	64
40165742003	**DUPLICATE 1**	EPA 8260	MDS	64
40165742004	**TRIP**	EPA 8260	MDS	64

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SUMMARY OF DETECTION

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165742002	**MW2**					
EPA 8260	Tetrachloroethene	1.7	ug/L	1.0	03/13/18 18:14	
EPA 8260	1,1,1-Trichloroethane	1.7	ug/L	1.0	03/13/18 18:14	
40165742003	**DUPLICATE 1**					
EPA 8260	Tetrachloroethene	1.5	ug/L	1.0	03/13/18 18:36	
EPA 8260	1,1,1-Trichloroethane	1.6	ug/L	1.0	03/13/18 18:36	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: MW3 **Lab ID: 40165742001** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 16:24	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/13/18 16:24	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/13/18 16:24	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 16:24	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/13/18 16:24	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/13/18 16:24	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/13/18 16:24	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/13/18 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/13/18 16:24	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/13/18 16:24	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/13/18 16:24	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/13/18 16:24	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/13/18 16:24	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/13/18 16:24	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/13/18 16:24	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 16:24	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 16:24	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/13/18 16:24	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/13/18 16:24	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/13/18 16:24	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 16:24	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 16:24	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/13/18 16:24	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/13/18 16:24	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/13/18 16:24	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/13/18 16:24	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 16:24	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: MW3 **Lab ID: 40165742001** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/13/18 16:24	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 16:24	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 16:24	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/13/18 16:24	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/13/18 16:24	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 16:24	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/13/18 16:24	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/13/18 16:24	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 16:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		03/13/18 16:24	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		03/13/18 16:24	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/13/18 16:24	2037-26-5	

Sample: MW2 **Lab ID: 40165742002** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:14	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/13/18 18:14	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/13/18 18:14	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:14	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:14	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/13/18 18:14	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/13/18 18:14	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/13/18 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:14	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:14	106-93-4	

REPORT OF LABORATORY ANALYSIS

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

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: MW2 **Lab ID: 40165742002** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/13/18 18:14	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/13/18 18:14	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/13/18 18:14	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/13/18 18:14	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/13/18 18:14	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 18:14	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 18:14	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:14	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/13/18 18:14	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/13/18 18:14	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:14	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 18:14	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/13/18 18:14	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:14	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/13/18 18:14	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/13/18 18:14	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/13/18 18:14	79-34-5	
Tetrachloroethene	**1.7**	ug/L	1.0	0.50	1		03/13/18 18:14	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 18:14	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:14	120-82-1	
1,1,1-Trichloroethane	**1.7**	ug/L	1.0	0.50	1		03/13/18 18:14	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/13/18 18:14	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/13/18 18:14	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:14	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:14	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/13/18 18:14	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		03/13/18 18:14	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		03/13/18 18:14	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/13/18 18:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: DUPLICATE 1 **Lab ID: 40165742003** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:36	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/13/18 18:36	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/13/18 18:36	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:36	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:36	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/13/18 18:36	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/13/18 18:36	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/13/18 18:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:36	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:36	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/13/18 18:36	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/13/18 18:36	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/13/18 18:36	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/13/18 18:36	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/13/18 18:36	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 18:36	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 18:36	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:36	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/13/18 18:36	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/13/18 18:36	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:36	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 18:36	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/13/18 18:36	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/13/18 18:36	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/13/18 18:36	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/13/18 18:36	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:36	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: DUPLICATE 1 **Lab ID: 40165742003** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/13/18 18:36	79-34-5	
Tetrachloroethene	**1.5**	ug/L	1.0	0.50	1		03/13/18 18:36	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 18:36	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 18:36	120-82-1	
1,1,1-Trichloroethane	**1.6**	ug/L	1.0	0.50	1		03/13/18 18:36	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/13/18 18:36	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/13/18 18:36	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:36	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/13/18 18:36	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/13/18 18:36	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 18:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		03/13/18 18:36	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		03/13/18 18:36	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		03/13/18 18:36	2037-26-5	

Sample: TRIP **Lab ID: 40165742004** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 13:06	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		03/13/18 13:06	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		03/13/18 13:06	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 13:06	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		03/13/18 13:06	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		03/13/18 13:06	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		03/13/18 13:06	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		03/13/18 13:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		03/13/18 13:06	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		03/13/18 13:06	106-93-4	

REPORT OF LABORATORY ANALYSIS

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

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Sample: TRIP **Lab ID: 40165742004** Collected: 03/08/18 00:00 Received: 03/10/18 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		03/13/18 13:06	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		03/13/18 13:06	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/13/18 13:06	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		03/13/18 13:06	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		03/13/18 13:06	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 13:06	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/13/18 13:06	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		03/13/18 13:06	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		03/13/18 13:06	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		03/13/18 13:06	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		03/13/18 13:06	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 13:06	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		03/13/18 13:06	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		03/13/18 13:06	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		03/13/18 13:06	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		03/13/18 13:06	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 13:06	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		03/13/18 13:06	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		03/13/18 13:06	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		03/13/18 13:06	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		03/13/18 13:06	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		03/13/18 13:06	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		03/13/18 13:06	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		03/13/18 13:06	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		03/13/18 13:06	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		03/13/18 13:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		03/13/18 13:06	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		03/13/18 13:06	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/13/18 13:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

QC Batch: 283046 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40165742001, 40165742002, 40165742003, 40165742004

METHOD BLANK: 1658095 Matrix: Water
Associated Lab Samples: 40165742001, 40165742002, 40165742003, 40165742004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	03/13/18 10:54	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/13/18 10:54	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	03/13/18 10:54	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	03/13/18 10:54	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/13/18 10:54	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/13/18 10:54	
1,1-Dichloropropene	ug/L	<0.44	1.0	03/13/18 10:54	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	03/13/18 10:54	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	03/13/18 10:54	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	03/13/18 10:54	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	03/13/18 10:54	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	03/13/18 10:54	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	03/13/18 10:54	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	03/13/18 10:54	
1,2-Dichloroethane	ug/L	<0.17	1.0	03/13/18 10:54	
1,2-Dichloropropane	ug/L	<0.23	1.0	03/13/18 10:54	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	03/13/18 10:54	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	03/13/18 10:54	
1,3-Dichloropropane	ug/L	<0.50	1.0	03/13/18 10:54	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	03/13/18 10:54	
2,2-Dichloropropane	ug/L	<0.48	1.0	03/13/18 10:54	
2-Chlorotoluene	ug/L	<0.50	1.0	03/13/18 10:54	
4-Chlorotoluene	ug/L	<0.21	1.0	03/13/18 10:54	
Benzene	ug/L	<0.50	1.0	03/13/18 10:54	
Bromobenzene	ug/L	<0.23	1.0	03/13/18 10:54	
Bromochloromethane	ug/L	<0.34	1.0	03/13/18 10:54	
Bromodichloromethane	ug/L	<0.50	1.0	03/13/18 10:54	
Bromoform	ug/L	<0.50	1.0	03/13/18 10:54	
Bromomethane	ug/L	<2.4	5.0	03/13/18 10:54	
Carbon tetrachloride	ug/L	<0.50	1.0	03/13/18 10:54	
Chlorobenzene	ug/L	<0.50	1.0	03/13/18 10:54	
Chloroethane	ug/L	<0.37	1.0	03/13/18 10:54	
Chloroform	ug/L	<2.5	5.0	03/13/18 10:54	
Chloromethane	ug/L	0.60J	1.0	03/13/18 10:54	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	03/13/18 10:54	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	03/13/18 10:54	
Dibromochloromethane	ug/L	<0.50	1.0	03/13/18 10:54	
Dibromomethane	ug/L	<0.43	1.0	03/13/18 10:54	
Dichlorodifluoromethane	ug/L	<0.22	1.0	03/13/18 10:54	
Diisopropyl ether	ug/L	<0.50	1.0	03/13/18 10:54	
Ethylbenzene	ug/L	<0.50	1.0	03/13/18 10:54	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

METHOD BLANK: 1658095 Matrix: Water
Associated Lab Samples: 40165742001, 40165742002, 40165742003, 40165742004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	03/13/18 10:54	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	03/13/18 10:54	
m&p-Xylene	ug/L	<1.0	2.0	03/13/18 10:54	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	03/13/18 10:54	
Methylene Chloride	ug/L	<0.23	1.0	03/13/18 10:54	
n-Butylbenzene	ug/L	<0.50	1.0	03/13/18 10:54	
n-Propylbenzene	ug/L	<0.50	1.0	03/13/18 10:54	
Naphthalene	ug/L	<2.5	5.0	03/13/18 10:54	
o-Xylene	ug/L	<0.50	1.0	03/13/18 10:54	
p-Isopropyltoluene	ug/L	<0.50	1.0	03/13/18 10:54	
sec-Butylbenzene	ug/L	<2.2	5.0	03/13/18 10:54	
Styrene	ug/L	<0.50	1.0	03/13/18 10:54	
tert-Butylbenzene	ug/L	<0.18	1.0	03/13/18 10:54	
Tetrachloroethene	ug/L	<0.50	1.0	03/13/18 10:54	
Toluene	ug/L	<0.50	1.0	03/13/18 10:54	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	03/13/18 10:54	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	03/13/18 10:54	
Trichloroethene	ug/L	<0.33	1.0	03/13/18 10:54	
Trichlorofluoromethane	ug/L	<0.18	1.0	03/13/18 10:54	
Vinyl chloride	ug/L	<0.18	1.0	03/13/18 10:54	
4-Bromofluorobenzene (S)	%	97	61-130	03/13/18 10:54	
Dibromofluoromethane (S)	%	99	67-130	03/13/18 10:54	
Toluene-d8 (S)	%	101	70-130	03/13/18 10:54	

LABORATORY CONTROL SAMPLE: 1658096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.8	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.6	97	70-130	
1,1,2-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethane	ug/L	50	57.9	116	71-132	
1,1-Dichloroethene	ug/L	50	58.6	117	75-130	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	70-131	
1,2-Dichloropropane	ug/L	50	50.8	102	80-120	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.1	100	70-130	
Benzene	ug/L	50	53.4	107	73-145	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	47.5	95	67-130	
Bromomethane	ug/L	50	40.3	81	26-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

LABORATORY CONTROL SAMPLE: 1658096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	57.5	115	70-133	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	53.7	107	58-120	
Chloroform	ug/L	50	51.2	102	80-121	
Chloromethane	ug/L	50	45.5	91	40-127	
cis-1,2-Dichloroethene	ug/L	50	52.8	106	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dichlorodifluoromethane	ug/L	50	50.7	101	20-135	
Ethylbenzene	ug/L	50	51.9	104	87-129	
Isopropylbenzene (Cumene)	ug/L	50	52.8	106	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	66-143	
Methylene Chloride	ug/L	50	50.5	101	70-130	
o-Xylene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	49.9	100	82-130	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-132	
trans-1,3-Dichloropropene	ug/L	50	44.0	88	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	54.7	109	76-133	
Vinyl chloride	ug/L	50	56.0	112	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			104	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658246 1658247

Parameter	Units	40165740003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.0	56.5	108	113	70-134	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	47.9	49.2	96	98	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	49.1	51.7	98	103	70-130	5	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	50.5	57.5	101	115	71-133	13	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	57.1	58.1	114	116	75-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	49.3	51.3	99	103	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	48.8	49.0	98	98	63-123	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.8	52.3	100	105	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	49.8	52.1	100	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	51.0	53.2	102	106	70-131	4	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	53.6	54.1	107	108	80-120	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.3	51.5	99	103	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.6	52.4	101	105	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1658246 1658247

Parameter	Units	40165740003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	52.8	54.0	106	108	73-145	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	50.3	53.1	101	106	70-130	5	20	
Bromoform	ug/L	<0.50	50	50	46.2	50.0	92	100	67-130	8	20	
Bromomethane	ug/L	<2.4	50	50	45.2	46.4	90	93	26-129	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	56.0	59.2	112	118	70-134	5	20	
Chlorobenzene	ug/L	<0.50	50	50	49.3	52.6	99	105	70-130	6	20	
Chloroethane	ug/L	<0.37	50	50	54.3	56.7	109	113	58-120	4	20	
Chloroform	ug/L	<2.5	50	50	50.1	51.6	100	103	80-121	3	20	
Chloromethane	ug/L	<0.50	50	50	46.8	49.1	94	98	40-128	5	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	53.1	55.1	106	110	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	50.8	50.1	102	100	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.2	51.7	96	103	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	50.8	51.8	102	104	20-146	2	20	
Ethylbenzene	ug/L	<0.50	50	50	51.3	53.2	103	106	87-129	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	52.2	54.7	104	109	70-130	5	20	
m&p-Xylene	ug/L	<1.0	100	100	102	106	102	106	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.9	51.2	100	102	66-143	3	20	
Methylene Chloride	ug/L	<0.23	50	50	48.1	49.8	96	100	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	49.5	53.3	99	107	70-130	7	20	
Styrene	ug/L	<0.50	50	50	50.5	52.7	101	105	70-130	4	20	
Tetrachloroethene	ug/L	<0.50	50	50	46.1	49.4	92	99	70-130	7	20	
Toluene	ug/L	<0.50	50	50	49.3	52.4	99	105	82-131	6	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	49.3	53.0	99	106	75-135	7	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	44.8	45.9	90	92	70-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	53.5	54.4	107	109	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	54.0	55.4	108	111	76-150	2	20	
Vinyl chloride	ug/L	<0.18	50	50	54.8	56.8	110	114	56-143	4	20	
4-Bromofluorobenzene (S)	%						97	100	61-130			
Dibromofluoromethane (S)	%						102	103	67-130			
Toluene-d8 (S)	%						97	101	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1710-1972-3 9122-9130 W NORTH
Pace Project No.: 40165742

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165742001	**MW3**	EPA 8260	283046		
40165742002	**MW2**	EPA 8260	283046		
40165742003	**DUPLICATE 1**	EPA 8260	283046		
40165742004	**TRIP**	EPA 8260	283046		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF COUSTODY

40165742

(Please Print Clearly)

Company Name:	Key Engineering
Branch/Location:	Milwaukee
Project Contact:	Jason Drews
Phone:	262-719-4508
Project Number:	1710-1972-0003
Project Name:	9122-9130 W North Ave
Project State:	WI
Sampled By (Print):	[illegible]
Sampled By (Sign):	[illegible]
PO #:	
Regulatory Program:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
E-Mail To Contact:	JDrews@Key...
Mail To Company:	Key Engineering
Mail To Address:	735 N Water Milwaukee WI
Invoice To Contact:	[illegible]
Invoice To Company:	Key Engin.
Invoice To Address:	735 N Water Milwaukee WI
Invoice To Phone:	414-224-8300

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): N
PRESERVATION (CODE)* Pick Letter: B

Analyses Requested: VOCS

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOCS	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW3	3/8/2018		GW	X			
002	MW2	↓		↓	X			
003	Duplicate 1	↓		↓	X			
004	Trip	↓		Lab Grade	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

900A

Relinquished By:	Date/Time:	Received By:	Date/Time:
[illegible]	3-9-18	Mary Fannin	3/9/18 10:43
Mary Fannin	3/9/18 1315		
[illegible]	3/10/18 0815	[illegible] Pace	3/10/18 0815

PACE Project No. 40165742

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Krey

Project # 480165742

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

	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)
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		1															2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 31Jan2018
	Document No.: **F-GB-C-031-rev.06**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40165742**

40165742

Client Name: Key

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: ______

Tracking #: ______

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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 3/10/18
Initials: DS

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out: DS 3/10/18	~~☑Yes~~	☑No (circled)	☐N/A	2. No collect times on COC 3/10/18 DS
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume: ☐Yes ☑No ☐N/A MS/MSD	☐Yes	☑No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: DS 3/10/18	~~☑Yes~~	☑No (circled)	☐N/A	12. 004 ID on label "91st and north" DS 3/10/18
-Includes date/time/ID/Analysis Matrix: W				
Trip Blank Present:	☑Yes	☐No	☐N/A	13.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 394				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: AL for DM **Date:** 3/10/18