

**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 form 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](http://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.

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

Form 4400-237 (R 9/15)

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## 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 Whitrock	First Jeff	MI	Organization/ Business Name Pioneer Bank
Mailing Address 1700 N. Central Avenue, Suite 101			City Marshfield
			State WI
			ZIP Code 54449
Phone # (include area code) (715) 486-2185	Fax # (include area code)	Email jwhitrock@pioneerbank.net	

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:

Pioneer Bank has an agreement in place with the Responsible Party to maintain financial responsibility for the investigation.

### Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name Delforge	First Andrew	MI R	Organization/ Business Name REI Engineering, Inc.
Mailing Address 4080 North 20th Avenue			City Wausau
			State WI
			ZIP Code 54401
Phone # (include area code) (715) 675-9784	Fax # (include area code)	Email adelforge@reiengineering.com	

### Property Owner (if different from requester)

Contact Last Name Rogus	First Raymond	MI	Organization/ Business Name R&R Transmission Specialists, LLC
Mailing Address 731 8th Street South			City Wisconsin Rapids
			State WI
			ZIP Code 54494
Phone # (include area code) (715) 213-7485	Fax # (include area code)	Email	

## Section 2. Property Information

Property Name Former Normington Dry Cleaners	FID No. (if known) 772014650
BRRTS No. (if known) 02-72-257528	Parcel Identification Number 3407483
Street Address 821 Chestnut Street	City Wisconsin Rapids
	State WI
	ZIP Code 54494
County Wood	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Wisconsin Rapids
	Property is composed of: <input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels
	Property Size Acres 0

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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.**

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**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.

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**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.

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

See attached update report. REI is proposing the installation of four (4) additional piezometers followed by long-term monitoring when the plume is defined.

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**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](http://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](http://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](http://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: \_\_\_\_\_

Phase II Environmental Site Assessment Report - Date: \_\_\_\_\_

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: \_\_\_\_\_

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: Update/work plan

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](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf).

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**Section 7. Certification by the Person who completed this form**

I am the person submitting this request (requester)

I prepared this request for: Pioneer Bank

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

Date Signed

Senior Hydrogeologist / Project Manager

8/24/18  
(715) 675-9784

Title

Telephone Number (include area code)

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

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## 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>.

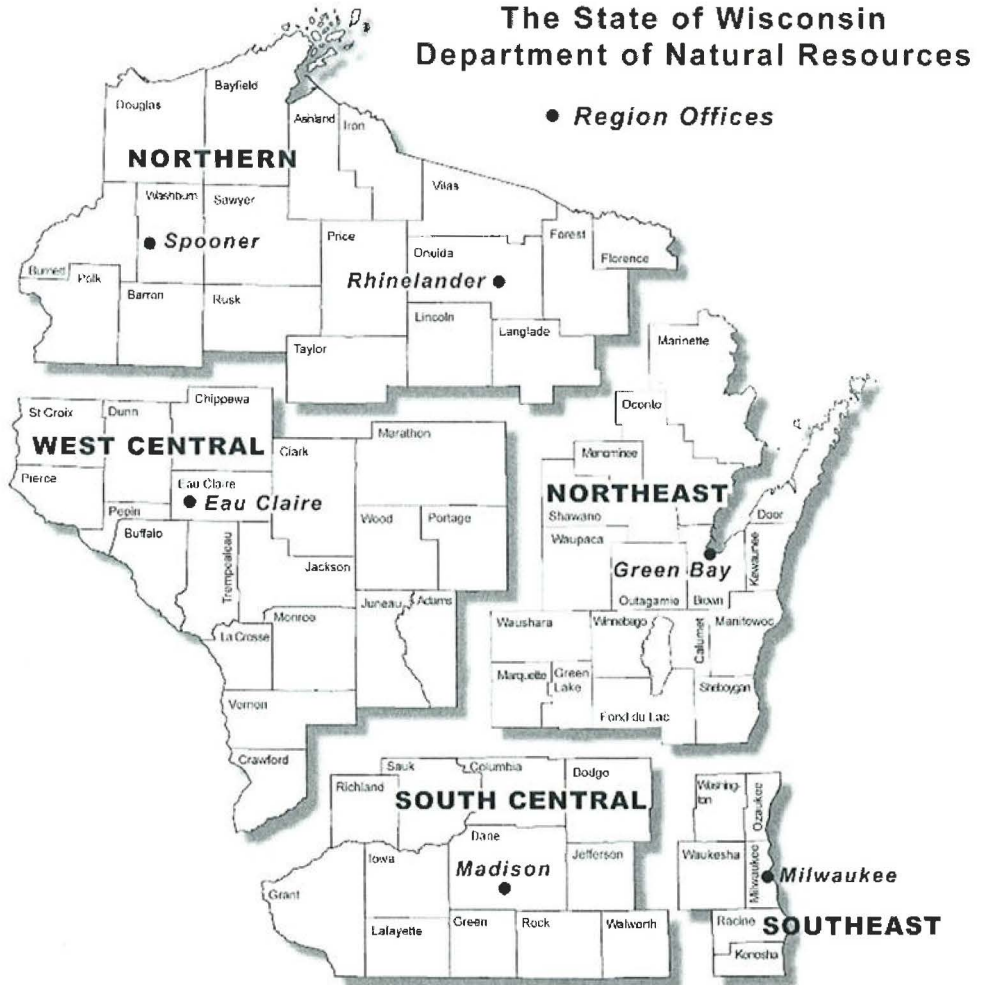
**DNR NORTHERN REGION**  
Attn: RR Program Assistant  
Department of Natural Resources  
223 E Steinfest Rd Antigo, WI 54409

**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



DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		



August 24, 2018



Wisconsin Department of Natural Resources

Attn: Steve Janowiak

473 Griffith Avenue

Wisconsin Rapids, WI 54494



**Subject:**

Additional Piezometer Installation  
Former Normington Cleaners  
821 Chestnut Street, Wisconsin Rapids, WI 54494  
BRRTS#02-72-257528

**Dear Steve:**

This letter and attached information will summarize the results of additional piezometer installation, and groundwater sampling. It will also serve as a work plan for additional piezometer placement, and groundwater sampling to closure. The site location is shown on Figure 1.

The Responsible Party for the property is Mr. Raymond Rogus, R&R Transmission Specialists, LLC. An agreement is in place wherein Pioneer Bank is financially responsible for costs associated with investigation and monitoring of the site. Recently Pioneer Bank has determined that a more aggressive environmental strategy is appropriate. Therefore, REI is requesting technical assistance from the WDNR regarding additional investigation, and closure strategy.

The most recent report was submitted on October 26, 2017 and documented the installation and sampling of piezometers PZ9, PZ10 and PZ11. The report recommended an additional, annual sampling event be conducted prior to installation of additional downgradient piezometers.

**Additional Investigation**

On June 21, 2018, REI was on site to oversee the installation of three (3) additional piezometers (PZ12, PZ13, and PZ14), at the locations shown on Figure 2. The locations were based on previous CVOC detections, and access provided by the City of Wisconsin Rapids in the right-of-way. Soil boring logs and well construction forms are included in Attachment A. Soil cuttings were containerized in DOT approved drums and disposed of as general refuse at the Lincoln County Landfill in Merrill, WI. Disposal documentation is included in Attachment B.

On June 27, 2018, the newly installed piezometers were developed, surveyed into the existing network, and a round of groundwater samples was collected. The new piezometers, and historically impacted monitoring wells and piezometers were sampled using low-flow techniques with a peristaltic pump, disposable tubing, and continuous field measurements through a flow cell. Purge water was containerized in DOT approved drums and disposed of at the Wausau Waterworks wastewater treatment plant. Disposal documentation is included in Attachment B.



**RESPONSIVE. EFFICIENT. INNOVATIVE.**

4080 N. 20th Avenue Wausau, WI 54401  
715-675-9784 REIengineering.com

Due to detections above the Enforcement Standard (ES) for Tetrachloroethylene (PCE) and Trichloroethylene (TCE) in the new piezometers, an additional confirmation round was collected on July 13, 2018. Groundwater flow at depth has remained consistent to the west/southwest as depicted on Figure 2.

The results of sampling from the new piezometers indicates that the plume remains undefined at the plume margins. The estimated extent of CVOC contamination at the site is shown on Figure 2. Increased levels of daughter products cis-1,2 Dichloroethene and trans-1,2 Dichloroethene at the leading edges of the plume indicate that some reductive dichlorination is occurring. The results of groundwater sampling are summarized on Tables 2a-2w. The complete analytical reports are included in Attachment C.

The Witter Field sprinkler wells were sampled on August 15, 2018. Concentrations of PCE and TCE are relatively consistent with data previously collected in 2003 and 2013. The results are summarized on Tables 2k and 2l. The complete laboratory report is in Attachment C.

#### **Additional Investigation**

Based on the results of additional piezometer installation and sampling, REI recommends the installation of four (4) additional piezometers at the locations shown on Figure 2. REI has submitted a permit application to the City of Wisconsin Rapids for installation in the right-of-way at those locations. Installation will be conducted once approval from the city is received. An additional sampling event will be conducted in September 2018.

#### **Conclusions and Recommendations**

The CVOC contaminant plume has been monitored for over 16 years. Minimal vadose zone contamination is present in the source area (Table 1). The vapor intrusion risk has been ruled out through sub-slab vapor sampling in the buildings on and adjacent to the source property (Table 4). Contaminant concentrations in the source and downgradient have fluctuated but have shown a generally stable or decreasing trend. Some correlation between groundwater elevation and contaminant concentration may be observed as shown on Figures 3a and 3b. Historic elevational data is shown on Table 3.

Once the plume is considered adequately defined, REI recommends a period of quarterly groundwater sampling to demonstrate plume stability. At that time, closure may be achievable with a GIS registry on the residual soil and groundwater contamination.

Thank you for your assistance with this project, please contact me to discuss additional piezometer placement, the results of additional investigation, or closure strategy at (715) 675-9784 or Adelforge@REIengineering.com.

Sincerely,  
REI Engineering, Inc.



Andrew R. Delforge, P.G.  
Hydrogeologist/Project Manager

cc: Pioneer Bank, Attn: Mr. Jeffrey Whitrock, 5758 Main Street, P.O. Box 220, Auburndale, WI 54412

R&R Transmission Specialists, LLC, Attn: Mr. Ray Rogus, 731 8<sup>th</sup> Street South, Wisconsin Rapids, WI 54494

Matt Rowe, Ruder Ware, L.L.S.C., 500 First Street, Suite 8000, P.O. Box 8050, Wausau, WI 54402-8050

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Last Name	First	MI	Organization/ Business Name
Whitrock	Jeff		Pioneer Bank
Mailing Address			City
1700 N. Central Avenue, Suite 101			Marshfield
			State
			WI
			ZIP Code
			54449
Phone # (include area code)	Fax # (include area code)	Email	
(715) 486-2185		jwhitrock@pioneerbank.net	

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:

Pioneer Bank has an agreement in place with the Responsible Party to maintain financial responsibility for the investigation.

### Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name
Delforge	Andrew	R	REI Engineering, Inc.
Mailing Address			City
4080 North 20th Avenue			Wausau
			State
			WI
			ZIP Code
			54401
Phone # (include area code)	Fax # (include area code)	Email	
(715) 675-9784		adelforge@reiengineering.com	

### Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name
Rogus	Raymond		R&R Transmission Specialists, LLC
Mailing Address			City
731 8th Street South			Wisconsin Rapids
			State
			WI
			ZIP Code
			54494
Phone # (include area code)	Fax # (include area code)	Email	
(715) 213-7485			

## Section 2. Property Information

Property Name	FID No. (if known)
Former Normington Dry Cleaners	772014650
BRRTS No. (if known)	Parcel Identification Number
02-72-257528	3407483
Street Address	City
821 Chestnut Street	Wisconsin Rapids
	State
	WI
	ZIP Code
	54494
County	Municipality where the Property is located
Wood	<input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Wisconsin Rapids
	Property is composed of:
	<input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels
	Property Size Acres
	0

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

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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.**

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**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  $\frac{1}{4}$ ,  $\frac{1}{4}$  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.

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**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.

See attached update report. REI is proposing the installation of four (4) additional piezometers followed by long-term monitoring when the plume is defined.

Technical Assistance, Environmental Liability  
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**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](http://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](http://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](http://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: \_\_\_\_\_

Phase II Environmental Site Assessment Report - Date: \_\_\_\_\_

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: \_\_\_\_\_

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: Update/work plan

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](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf).



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**Section 7. Certification by the Person who completed this form**

I am the person submitting this request (requester)

I prepared this request for: Pioneer Bank

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

Date Signed

Senior Hydrogeologist / Project Manager

8/24/18  
(715) 675-9784

Title

Telephone Number (include area code)

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

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## 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>.

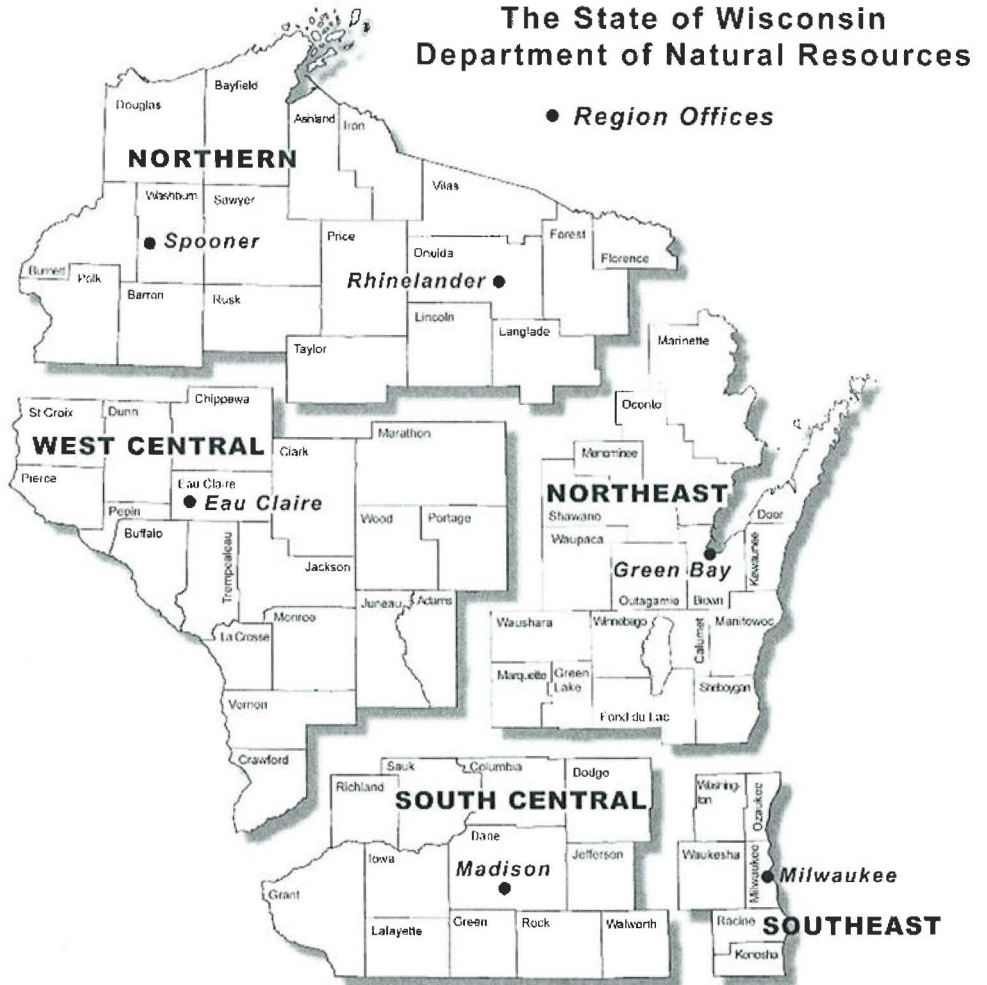
**DNR NORTHERN REGION**  
Attn: RR Program Assistant  
Department of Natural Resources  
223 E Steinfest Rd Antigo, WI 54409

**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? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

**Table 1**  
**Soil Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

Date-->	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00
	Sample-->	GP1	GP1	GP2	GP3	GP4	GP4	GP5	GP6	GP7	GP8	GP8	GP9	GP9
Sample Depth--(Feet)>	8-10	12-14	12-14	12-14	6-8	12-14	12-14	12-14	12-14	12-14	8-10	12-14	8-10	12-14
Detected VOC's (ug/kg)	NTEDC	GW												
Benzene	7,410	3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Bromobenzene	679,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Bromodichloromethane	1,960	0.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	108,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
sec-Butylbenzene	145,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
tert-Butylbenzene	183,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Carbon Tetrachloride	NS	19	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chlorobenzene	761,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroethane	NS	113	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloroform	2,130	17	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Chloromethane	72,000	7.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Chlorotoluene	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
4-Chlorotoluene	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dibromo-3-chloropropane	99	0.2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dibromochloromethane	4,400	32	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dibromoethane	230	0.0141	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	376,000	584	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	297,000	576.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	17,500	72	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Dichlorodifluoromethane	571,000	1,536.9	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethane	23,700	241.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichloroethane	3,030	14	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1-Dichloroethene	1,190,000	2.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
cis-1,2-Dichloroethene	2,040,000	20.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
trans-1,2-Dichloroethylene	976,000	29.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2-Dichloropropane	6,620	1.7	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3-Dichloropropane	1,490,000	0.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2,2-Dichloropropane	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
(di)Isopropyl Ether	2,230,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Ethylbenzene	37,000	785	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Hexachloro(1,3)butadiene	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Isopropylbenzene	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
p-Isopropyltoluene	162,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methylene Chloride	72,100	1.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Methyl tert-Butyl Ether	293,000	13.5	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Naphthalene	26,000	329.4	36.9	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	NS	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,2,2-Tetrachloroethane	3,690	0.0784	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Tetrachloroethylene	3,120	2.3	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<b>40.6</b>
Toluene	818,000	553.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	151,000	NS	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	98,700	204	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	640,000	70.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	7,340	1.6	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichloroethylene	8,810	1.8	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Trichlorofluoromethane	1,230,000	2,237.4	52.1	<25	29.6	<25	<25	70.3	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	219,000		<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	182,000	689.1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Vinyl Chloride	2,030	0.069	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Total Xylenes	258,000	1,970	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25

**Notes:**

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedances are bold

**Bold**

NTEDC RCL exceedances are outlined in bold

**Bold**

NS - No Standard

<sup>j</sup> - Estimated Value between detection limit and quantification limit

**Table 1-Continued**  
**Soil Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

	Date-->	4/10/01	7/31/02	7/31/02	7/31/02	7/31/02	9/24/02	1/6/12	1/6/12	1/6/12	1/6/12	3/20/12	3/20/12	3/20/12
	Sample-->	HA-1	CPZ1	CPZ1	CPZ1	CPZ1	CS-1	GP1	GP2	GP3	GP4	MWWR1	MWWR2	MWWR3
	Sample Depth--(Feet)>	0-2	7.5-9.5	15-17	10-12	15-17	0.5-1	12-14	0.5-1	0.5-1	0.5-1	2-4	4-6	6-8
Detected VOC's (ug/kg)	NTEDC	GW												
Benzene	7,410	3	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromobenzene	679,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Bromodichloromethane	1,960	0.2	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
n-Butylbenzene	108,000	NS	<25	<25	<25	<25	<25	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4	<40.4
sec-Butylbenzene	145,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
tert-Butylbenzene	183,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Carbon Tetrachloride	NS	19	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chlorobenzene	761,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chloroethane	NS	113	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chloroform	2,130	17	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Chloromethane	72,000	7.8	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2-Chlorotoluene	NS	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
4-Chlorotoluene	NS	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dibromo-3-chloropropane	99	0.2	<25	<100	<100	<100	<100	<82.3	<82.3	<82.3	<82.3	<82.3	<82.3	<82.3
Dibromochloromethane	4,400	32	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dibromoethane	230	0.0141	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichlorobenzene	376,000	584	<25	<25	<25	<25	<25	<44.4	<44.4	<44.4	<44.4	<44.4	<44.4	<44.4
1,3-Dichlorobenzene	297,000	576.1	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,4-Dichlorobenzene	17,500	72	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Dichlorodifluoromethane	571,000	1,536.9	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloroethane	23,700	241.3	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloroethane	3,030	14	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1-Dichloroethene	1,190,000	2.5	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,2-Dichloroethene	2,040,000	20.6	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethylene	976,000	29.4	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2-Dichloropropane	6,620	1.7	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3-Dichloropropane	1,490,000	0.1	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
2,2-Dichloropropane	NS	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
(di)Isopropyl Ether	2,230,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	37,000	785	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Hexachloro(1,3)butadiene	NS	NS	<25	<25	<25	<25	<25	<26.4	<26.4	<26.4	<26.4	<26.4	<26.4	<26.4
Isopropylbenzene	NS	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
p-Isopropyltoluene	162,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	72,100	1.3	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methyl tert-Butyl Ether	293,000	13.5	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	26,000	329.4	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
n-Propylbenzene	NS	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2,2-Tetrachloroethane	3,690	0.0784	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethylene	3,120	2.3	<b>593</b>	<25	<25	<25	<25	<b>60</b>	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	818,000	553.6	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,3-Trichlorobenzene	151,000	NS	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trichlorobenzene	98,700	204	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,1-Trichloroethane	640,000	70.1	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,1,2-Trichloroethane	7,340	1.6	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trichloroethylene	8,810	1.8	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trichlorofluoromethane	1,230,000	2,237.4	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trimethylbenzene	219,000		<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	182,000	689.1	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Vinyl Chloride	2,030	0.069	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Total Xylenes	258,000	1,970	<25	<25	<25	<25	<25	<50	<50	<50	<50	<50	<50	<50

**Notes:**

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW RCL exceedances are bold

**Bold**

NTEDC RCL exceedances are outlined in bold

NS - No Standard

<sup>j</sup> - Estimated Value between detection limit and quantification limit

**Table 2a**  
**PZ1 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	PZ1							
	ES	PAL	8/7/02	9/24/02	12/9/02	4/3/03	4/28/16	7/5/17
<b>Detected VOC's (ug/L)</b>								
Benzene	5	0.5	<0.48	<i>0.67</i>	<0.25	<0.41	<0.50	<0.50
Bromobenzene			<0.44	<0.74	<0.74	<0.82	<0.23	<0.23
Bromochloromethane			<0.61	<0.67	<0.67	<0.97	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.61	<0.23	<0.23	<0.56	<0.50	<0.50
Bromoform	4.4	0.44	<0.70	<0.45	<0.45	<0.94	<0.50	<0.50
Bromomethane	10	1	<0.71	<0.87	<0.87	<0.91	<2.4	<2.4
n-Butylbenzene			<0.61	<0.65	<0.65	<0.93	<0.50	<0.50
sec-Butylbenzene			<0.49	<0.62	<0.62	<0.89	<2.2	<2.2
tert-Butylbenzene			<0.50	<0.96	<0.96	<0.97	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.73	<0.47	<0.47	<0.49	<0.50	<0.50
Chlorobenzene			<0.55	<0.58	<0.58	<0.41	<0.50	<0.50
Chloroethane	400	80	<0.57	<0.84	<0.84	<0.97	<0.37	<0.37
Chloroform	6	0.6	<0.75	<0.45	<0.45	<0.37	<i>4.6j</i>	<i>5.4</i>
Chloromethane	3	3	<0.62	<0.27	<0.27	<0.24	<0.50	<0.50
2-Chlorotoluene			<0.48	<0.66	<0.66	<0.85	<0.50	<0.50
4-Chlorotoluene			<0.72	<0.89	<0.89	<0.74	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.0	<0.88	<0.88	<0.87	<2.2	<2.2
Dibromochloromethane	60	6	<0.43	<0.84	<0.84	<0.81	<0.50	<0.50
1,2-Dibromoethane	0.05	0.005	<0.91	<0.66	<0.66	<0.56	<0.18	<0.18
Dibromomethane			<0.67	<0.74	<0.74	<0.60	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.67	<0.71	<0.71	<0.83	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.54	<0.58	<0.58	<0.87	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.39	<0.63	<0.63	<0.95	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.68	<0.57	<0.57	<0.99	<0.22	<0.22
1,1-Dichloroethane	850	85	<0.48	<0.87	<0.87	<0.36	<0.24	<0.24
1,2-Dichloroethane	5	0.5	<0.47	<0.55	<0.55	<0.36	<0.17	<0.17
1,1-Dichloroethene	7	0.7	<0.85	<0.56	<0.56	<0.57	<0.41	<0.41
cis-1,2-Dichloroethene	70	7	<0.73	<0.81	<0.81	<0.83	<0.26	<0.26
trans-1,2-Dichloroethylene	100	20	<0.79	<0.80	<0.80	<0.89	<0.26	<0.26
1,2-Dichloropropane	5	0.5	<0.53	<0.39	<0.39	<0.46	<0.23	<0.23
1,3-Dichloropropane			<0.53	<0.62	<0.62	<0.61	<0.50	<0.50
2,2-Dichloropropane			<0.95	<0.99	<0.99	<0.62	<0.48	<0.48
1,1-Dichloropropene			<0.85	<0.79	<0.79	<0.75	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.56	<0.57	<0.57	<0.19	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.51	<0.64	<0.64	<0.19	<0.23	<0.23
Diisopropyl ether			<0.60	<0.60	<0.60	<0.76	<0.50	<0.50
Ethylbenzene	700	140	<0.43	3.1	<0.53	1.5	<0.50	<0.50
Hexachloro-1,3-butadiene			<0.84	<0.95	<0.95	<0.67	<2.1	<2.1
Isopropylbenzene			<0.43	<0.66	<0.66	<0.59	<0.14	<0.14
p-Isopropyltoluene			<0.57	<0.58	<0.58	<0.67	<0.50	<0.50
Methylene Chloride	5	0.5	<0.85	<0.47	<0.47	<i>0.84</i>	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.67	<0.87	<0.87	<0.61	<0.17	<0.17
Naphthalene	100	10	<0.59	1.3	<0.63	0.80	<2.5	<2.5
n-Propylbenzene			0.73	1.7	<0.95	0.98	<0.50	<0.50
Styrene	100	10	<0.43	<0.62	<0.62	<0.86	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.75	<0.95	<0.95	<0.92	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.91	<0.77	<0.77	<0.20	<0.25	<0.25
Terachloroethylene	5	0.5	<0.57	<0.63	<0.63	<0.45	<0.50	<0.50
Toluene	800	160	<0.47	4.9	<0.84	4.0	<0.50	<0.50
1,2,3-Trichlorobenzene			<0.57	<0.77	<0.77	<0.74	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<0.60	<0.57	<0.57	<0.97	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.69	<0.65	<0.65	<0.90	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.72	<0.50	<0.50	<0.42	<0.20	<0.20
Trichloroethylene	5	0.5	<0.4	<0.39	<0.39	<0.48	<0.33	<0.33
Trichlorofluoromethane	3,490	698	<0.52	<0.85	<0.85	<0.79	<0.18	<0.18
1,2,3-Trichloropropane	60	12	<0.78	<0.92	<0.92	<0.99	<0.50	<0.50
Total Trimethylbenzenes	480	96	2.75	15.8	0.74	7.9	<1.0	<1.0
Vinyl Chloride	0.2	0.02	<0.18	<0.11	<0.11	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	2.95	31.3	<1.83	9.8	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2b**  
**CPZ1 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	CPZ1										
	ES	PAL	8/7/02	9/24/02	12/9/02	4/3/03	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17
<b>Detected VOC's (ug/L)</b>											
Benzene	5	0.5	<0.48	<0.25	<0.25	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<0.44	<0.74	<0.74	<0.82	<0.82	<0.48	<0.48	<0.48	<0.48
Bromochloromethane			<0.61	<0.67	<0.67	<0.97	<0.97	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	0.6	0.06	<0.61	<0.23	<0.23	<0.56	<0.56	<0.45	<0.45	<0.45	<0.45
Bromoform	4.4	0.44	<0.70	<0.45	<0.45	<0.94	<0.94	<0.33	<0.33	<0.33	<0.33
Bromomethane	10	1	<0.71	<0.87	<0.87	<0.91	<0.91	<0.43	<0.43	<0.43	<0.43
n-Butylbenzene			<0.61	<0.65	<0.65	<0.93	<0.93	<0.40	<0.40	<0.40	<0.40
sec-Butylbenzene			<0.49	<0.62	<0.62	<0.89	<0.89	<0.60	<0.60	<0.60	<0.60
tert-Butylbenzene			<0.50	<0.96	<0.96	<0.97	<0.97	<0.42	<0.42	<0.42	<0.42
Carbon Tetrachloride	5	0.5	<0.73	<0.47	<0.47	<0.49	<0.49	<0.37	<0.37	<0.37	<0.37
Chloroform	6	0.6	<0.75	<0.45	<0.45	<0.37	<1.3	<0.69	<0.69	<0.69	4.3j
Chlorobenzene			<0.55	<0.58	<0.58	<0.41	<0.41	<0.36	<0.36	<0.36	<0.36
Chlorodibromomethane	60	6	<0.43	<0.84	<0.84	<0.81	<0.81	<1.9	<1.9	<1.9	<1.9
Chloroethane	400	80	<0.57	<0.84	<0.84	<0.97	<0.97	<0.44	<0.44	<0.44	<0.44
Chloromethane	3	3	<0.62	<0.27	<0.27	<0.24	<0.24	<0.39	<0.39	<0.39	<0.39
2-Chlorotoluene			<0.48	<0.66	<0.66	<0.85	<0.85	<0.48	<0.48	<0.48	<0.48
4-Chlorotoluene			<0.72	<0.89	<0.89	<0.74	<0.74	<0.48	<0.48	<0.48	<0.48
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.0	<0.88	<0.88	<0.87	<1.7	<1.5	<1.5	<1.5	<1.5
1,2-Dibromoethane	0.05	0.005	<0.91	<0.66	<0.66	<0.56	<0.56	<0.38	<0.38	<0.38	<0.38
Dibromomethane			<0.67	<0.74	<0.74	<0.60	<0.60	<0.48	<0.48	<0.48	<0.48
1,3-Dichlorobenzene	600	120	<0.54	<0.58	<0.58	<0.87	<0.87	<0.45	<0.45	<0.45	<0.45
1,4-Dichlorobenzene	75	15	<0.39	<0.63	<0.63	<0.95	<0.95	<0.43	<0.43	<0.43	<0.43
1,2-Dichloroethane	5	0.5	<0.47	<0.55	<0.55	<0.36	<0.36	<0.48	<0.48	<0.48	<0.48
1,2-Dichlorobenzene	600	60	<0.67	<0.71	<0.71	<0.83	<0.83	<0.44	<0.44	<0.44	<0.44
1,1-Dichloroethene	7	0.7	<0.85	<0.56	<0.56	<0.57	<0.57	<0.43	<0.43	<0.43	<0.43
cis-1,2-Dichloroethene	70	7	<0.73	<0.81	<0.81	<0.83	<0.83	<0.42	<0.42	<0.42	<0.42
Dichlorodifluoromethane	1,000	200	<0.68	<0.57	<0.57	<0.99	<0.99	<0.40	<0.40	<0.40	<0.40
trans-1,2-Dichloroethylene	100	20	<0.79	<0.80	<0.80	<0.89	<0.89	<0.37	<0.37	<0.37	<0.37
1,2-Dichloropropane	5	0.5	<0.53	<0.39	<0.39	<0.46	<0.46	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	850	85	<0.48	<0.87	<0.87	<0.36	<0.36	<0.28	<0.28	<0.28	<0.28
1,3-Dichloropropane			<0.53	<0.62	<0.62	<0.61	<0.61	<0.46	<0.46	<0.46	<0.46
2,2-Dichloropropane			<0.95	<0.99	<0.99	<0.62	<0.62	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene			<0.85	<0.79	<0.79	<0.75	<0.75	<0.51	<0.51	<0.51	<0.51
cis-1,3-Dichloropropene	0.4	0.04	<0.56	<0.57	<0.57	<0.19	<0.20	<0.29	<0.29	<0.29	<0.29
trans-1,3-Dichloropropene	0.4	0.04	<0.51	<0.64	<0.64	<0.19	<0.19	<0.30	<0.30	<0.30	<0.30
Diisopropyl ether			<0.60	<0.60	<0.60	<0.76	<0.76	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.43	<0.53	<0.53	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50
Fluorotrichloromethane	3,490	698	<0.52	<0.85	<0.85	<0.79	<0.79	<0.48	<0.48	<0.48	<0.48
Hexachlorobutadiene			<0.84	<0.95	<0.95	<0.67	<0.67	<1.3	<1.3	<1.3	<1.3
Isopropylbenzene			<0.43	<0.66	<0.66	<0.59	<0.59	<0.34	<0.34	<0.34	<0.34
p-Isopropyltoluene			<0.57	<0.58	<0.58	<0.67	<0.67	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	5	0.5	<0.85	<0.47	<0.47	<0.43	<0.43	<0.36	<0.36	<0.36	<0.36
Methyl t-Butyl Ether	60	12	<0.67	<0.87	<0.87	<0.61	<0.61	<0.49	<0.49	<0.49	<0.49
Naphthalene	100	10	<0.59	<0.63	<0.63	<0.74	<0.89	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<0.64	<0.95	<0.95	<0.81	<0.81	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<0.43	<0.62	<0.62	<0.86	<0.86	<0.35	<0.35	<0.35	<0.35
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.91	<0.77	<0.77	<0.20	<0.20	<0.38	<0.38	<0.38	<0.38
1,1,1,2-Tetrachloroethane	70	7	<0.75	<0.95	<0.95	<0.92	<0.92	<0.45	<0.45	<0.45	<0.45
Tetrachloroethylene	5	0.5	<b>21</b>	<b>5.3</b>	<b>5.0</b>	<b>8.2</b>	<i>0.94j</i>	<0.47	<0.47	<0.47	<0.47
Toluene	800	160	<0.47	<0.84	<0.84	<0.67	<0.67	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene			<0.57	<0.77	<0.77	<0.74	<0.74	<0.77	<0.77	<0.77	<0.77
1,2,4-Trichlorobenzene	70	14	<0.60	<0.57	<0.57	<0.97	<0.97	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	200	40	<0.69	<0.65	<0.65	<0.90	<0.90	<0.44	<0.44	<0.44	<0.44
1,1,2-Trichloroethane	5	0.5	<0.72	<0.50	<0.50	<0.42	<0.42	<0.39	<0.39	<0.39	<0.39
Trichloroethylene	5	0.5	<0.4	<0.39	<0.39	<0.48	<0.48	<0.36	<0.36	<0.36	<0.36
1,2,3-Trichloropropane	60	12	<0.78	<0.92	<0.92	<0.99	<0.99	<0.47	<0.47	<0.47	<0.47
Total Trimethylbenzenes	480	96	<1.03	<1.33	<1.33	<1.80	<1.80	<3.07	<3.07	<3.07	<3.07
Vinyl Chloride	0.2	0.02	<0.18	<0.11	<0.11	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.94	<1.83	<1.83	<2.63	<2.63	<1.32	<1.32	<1.32	<1.32

PAL = Preventative Action Limit

ES = Enforcement Standards

**BOLD**

*Italic*

= Exceeds Enforcement Standard

j = Estimated Concentration Bet = Exceeds Preventative Action Limit

Table 2c  
 DPRA-PZI Groundwater Analytical Results  
 Former Normington Dry Cleaners  
 Wisconsin Rapids, Wisconsin

PARAMETER	DPRA-PZI																
	ES	PAL	10/7/98	1/14/99	5/18/99	7/27/99	4/30/98	7/8/98	10/7/98	1/14/99	5/18/99	7/27/99	8/7/02	9/24/02	12/9/02	4/3/03	
Detected VOC's (ug/L)																	
Benzene	5	0.5	<b>7.8</b>	<b>651</b>	<b>1,230</b>	X	<b>170</b>	<b>36.1</b>	X	<b>27.9</b>	X	X	<b>77</b>	<b>92</b>	<b>24</b>	<b>4.5</b>	
Bromobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.4	<3.7	<7.4	<8.2
Bromochloromethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.1	<3.4	<6.7	<9.7
Bromodichloromethane	0.6	0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.1	<1.2	<2.3	<5.6
Bromoform	4.4	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.0	<2.2	<4.5	<9.4
Bromomethane	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.1	<4.3	<8.7	<9.1
n-Butylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.1	<3.2	<6.5	<9.3
sec-Butylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.9	<3.1	<6.2	<8.9
tert-Butylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<4.8	<9.6	<9.7
Carbon Tetrachloride	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.3	<2.3	<4.7	<4.9
Chloroform	6	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.5	<2.2	<4.5	<3.7
Chlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.5	<2.9	<5.8	<4.1
Chlorodibromomethane	60	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.3	<4.2	<8.4	<8.1
Chloroethane	400	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.7	<4.2	<8.4	<9.7
Chloromethane	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.2	<1.4	<2.7	<2.4
2-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.8	<3.3	<6.6	<8.5
4-Chlorotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.2	<4.5	<8.9	<7.4
1,2-Dibromo-3-chloropropane	0.2	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<4.4	<8.8	<8.7
1,2-Dibromoethane	0.05	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.1	<3.3	<6.6	<5.6
Dibromomethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.7	<3.7	<7.4	<6.0
1,3-Dichlorobenzene	600	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.4	<2.9	<5.8	<8.7
1,4-Dichlorobenzene	75	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3.9	<3.1	<6.3	<9.5
1,2-Dichloroethane	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.7	<2.8	<5.5	<3.6
1,2-Dichlorobenzene	600	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.7	<3.5	<7.1	<8.3
1,1-Dichloroethene	7	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.5	<2.8	<5.6	<5.7
cis-1,2-Dichloroethene	70	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.3	<4.0	<8.1	18
Dichlorodifluoromethane	1,000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.8	<2.8	<5.7	<9.9
trans-1,2-Dichloroethylene	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.9	<4.0	<8.0	<8.9
1,2-Dichloropropane	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.3	<1.9	<3.9	<4.6
1,1-Dichloroethane	850	85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.8	<4.3	<8.7	<7.5
1,3-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.3	<3.1	<6.2	<6.1
2,2-Dichloropropane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.5	<5.0	<9.9	<6.2
1,1-Dichloropropene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.5	<4.0	<7.9	<7.5
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.6	<2.8	<5.7	<1.9
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.1	<3.2	<6.4	<1.9
Diisopropyl ether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.0	<3.0	<6.0	<7.6
Ethylbenzene	700	140	6.22	<b>1,630</b>	185	672	11.9	X	X	15	X	X	87	37	23	<5.4	
Fluorotrichloromethane	3,490	698	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.2	<4.2	<8.5	<7.9
Hexachlorobutadiene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.4	<4.8	<9.5	<6.7
Isopropylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.4	17	<6.6	<5.9
p-Isopropyltoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.7	<2.9	<5.8	<6.7
Methylene Chloride	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<8.5	<2.3	<4.7	<4.3
Methyl t-Butyl Ether	60	12	27.5	X	X	X	X	X	X	4.08	X	X	X	<6.7	<4.3	<8.7	<6.1
Naphthalene	100	10	2.54	<b>1,560</b>	X	71.3	5.18	X	19.3	15.2	0.777	X	45	88	24	<7.4	
n-Propylbenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	37	<9.5	<8.1
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4.3	<3.1	<6.2	<8.6
1,1,2,2-Tetrachloroethane	0.2	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.1	<3.9	<7.7	<2.0
1,1,1,2-Tetrachloroethane	70	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.5	<4.8	<9.5	<9.2
Tetrachloroethylene	5	0.5	2.88	X	X	X	<b>2,360</b>	<b>1,550</b>	<b>1,770</b>	<b>2,760</b>	<b>2,860</b>	<b>3,520</b>	<b>1,300</b>	<b>620</b>	<b>720</b>	<b>1,000</b>	
Toluene	800	160	80.7	<b>14,900</b>	564	<b>3,920</b>	X	X	X	15.0	X	X	5.2	6.3	<8.4	<6.7	
1,2,3-Trichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.7	<3.9	<7.7	<7.4
1,2,4-Trichlorobenzene	70	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.0	<2.8	<5.7	<9.7
1,1,1-Trichloroethane	200	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<6.9	<3.2	<6.5	<9.0
1,1,2-Trichloroethane	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.2	<2.5	<5.0	<4.2
Trichloroethylene	5	0.5	NA	X	NA	X	X	NA	NA	<b>18.6</b>	X	X	<b>18</b>	<b>39</b>	<b>140</b>	<b>160</b>	
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.8	<4.6	<9.2	<9.9
Total Trimethylbenzenes	480	96	15.65	<b>6,290</b>	451	<b>2,203</b>	4.36	X	X	1.58	X	X	140	272	<13.3	18	
Vinyl Chloride	0.2	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.8	<0.55	<1.1	<1.8
Total Xylenes	2,000	400	50.8	<b>13,760</b>	793	3,426	5.8	X	31.2	1.68	X	X	192	176	<18.3	<26.3	

PAL = Preventative Action Limit

ES = Enforcement Standards

**BOLD**

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j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2d**  
**CPZ2 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	CPZ2											
	ES	PAL	8/7/02	9/24/02	12/9/02	4/3/03	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17	
<b>Detected VOC's (ug/L)</b>												
Benzene	5	0.5	<0.48	<0.25	<0.25	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<0.44	<0.74	<0.74	<0.82	<0.82	<0.48	<0.48	<0.48	<0.48	<0.48
Bromochloromethane			<0.61	<0.67	<0.67	<0.97	<0.97	<0.49	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	0.6	0.06	<0.61	<0.23	<0.23	<0.56	<0.56	<0.45	<0.45	<0.45	<0.45	<0.45
Bromoform	4.4	0.44	<0.70	<0.45	<0.45	<0.94	<0.94	<0.33	<0.33	<0.33	<0.33	<0.33
Bromomethane	10	1	<0.71	<0.87	<0.87	<0.91	<0.91	<0.43	<0.43	<0.43	<0.43	<0.43
n-Butylbenzene			<0.61	<0.65	<0.65	<0.93	<0.93	<0.40	<0.40	<0.40	<0.40	<0.40
sec-Butylbenzene			<0.49	<0.62	<0.62	<0.89	<0.89	<0.60	<0.60	<0.60	<0.60	<0.60
tert-Butylbenzene			<0.50	<0.96	<0.96	<0.97	<0.97	<0.42	<0.42	<0.42	<0.42	<0.42
Carbon Tetrachloride	5	0.5	<0.73	<0.47	<0.47	<0.49	<0.49	<0.37	<0.37	<0.37	<0.37	<0.37
Chloroform	6	0.6	<0.75	<0.45	<0.45	<0.37	<1.3	<0.69	<0.69	<0.69	<0.69	<0.69
Chlorobenzene			<0.55	<0.58	<0.58	<0.41	<0.41	<0.36	<0.36	<0.36	<0.36	<0.36
Chlorodibromomethane	60	6	<0.43	<0.84	<0.84	<0.81	<0.81	<1.9	<1.9	<1.9	<1.9	<1.9
Chloroethane	400	80	<0.57	<0.84	<0.84	<0.97	<0.97	<0.44	<0.44	<0.44	<0.44	<0.44
Chloromethane	3	3	<0.62	<0.27	<0.27	<0.24	<0.24	<0.39	<0.39	<0.39	<0.39	<0.39
2-Chlorotoluene			<0.48	<0.66	<0.66	<0.85	<0.85	<0.48	<0.48	<0.48	<0.48	<0.48
4-Chlorotoluene			<0.72	<0.89	<0.89	<0.74	<0.74	<0.48	<0.48	<0.48	<0.48	<0.48
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.0	<0.88	<0.88	<0.87	<1.7	<1.5	<1.5	<1.5	<1.5	<1.5
1,2-Dibromoethane	0.05	0.005	<0.91	<0.66	<0.66	<0.56	<0.56	<0.38	<0.38	<0.38	<0.38	<0.38
Dibromomethane			<0.67	<0.74	<0.74	<0.60	<0.60	<0.48	<0.48	<0.48	<0.48	<0.48
1,3-Dichlorobenzene	600	120	<0.54	<0.58	<0.58	<0.87	<0.87	<0.45	<0.45	<0.45	<0.45	<0.45
1,4-Dichlorobenzene	75	15	<0.39	<0.63	<0.63	<0.95	<0.95	<0.43	<0.43	<0.43	<0.43	<0.43
1,2-Dichloroethane	5	0.5	<0.47	<0.55	<0.55	<0.36	<0.36	<0.48	<0.48	<0.48	<0.48	<0.48
1,2-Dichlorobenzene	600	60	<0.67	<0.71	<0.71	<0.83	<0.83	<0.44	<0.44	<0.44	<0.44	<0.44
1,1-Dichloroethene	7	0.7	<0.85	<0.56	<0.56	<0.57	<0.57	<0.43	<0.43	<0.43	<0.43	<0.43
cis-1,2-Dichloroethene	70	7	<0.73	<0.81	<0.81	<0.83	<0.83	<0.42	<0.42	<0.42	<0.42	<0.42
Dichlorodifluoromethane	1,000	200	<0.68	<0.57	<0.57	<0.99	<0.99	<0.40	<0.40	<0.40	<0.40	<0.40
trans-1,2-Dichloroethylene	100	20	<0.79	<0.80	<0.80	<0.89	<0.89	<0.37	<0.37	<0.37	<0.37	<0.37
1,2-Dichloropropane	5	0.5	<0.53	<0.39	<0.39	<0.46	<0.46	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	850	85	<0.48	<0.87	<0.87	<0.36	<0.36	<0.75	<0.28	<0.28	<0.28	<0.28
1,3-Dichloropropane			<0.53	<0.62	<0.62	<0.61	<0.61	<0.46	<0.46	<0.46	<0.46	<0.46
2,2-Dichloropropane			<0.95	<0.99	<0.99	<0.62	<0.62	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene			<0.85	<0.79	<0.79	<0.75	<0.75	<0.51	<0.51	<0.51	<0.51	<0.51
cis-1,3-Dichloropropene	0.4	0.04	<0.56	<0.57	<0.57	<0.19	<0.20	<0.29	<0.29	<0.29	<0.29	<0.29
trans-1,3-Dichloropropene	0.4	0.04	<0.51	<0.64	<0.64	<0.19	<0.19	<0.30	<0.30	<0.30	<0.30	<0.30
Diisopropyl ether			<0.60	<0.60	<0.60	<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.43	<0.53	<0.53	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50
Fluorotrichloromethane	3,490	698	<0.52	<0.85	<0.85	<0.79	<0.79	<0.48	<0.48	<0.48	<0.48	<0.48
Hexachlorobutadiene			<0.84	<0.95	<0.95	<0.67	<0.67	<1.3	<1.3	<1.3	<1.3	<1.3
Isopropylbenzene			<0.43	<0.66	<0.66	<0.59	<0.59	<0.34	<0.34	<0.34	<0.34	<0.34
p-Isopropyltoluene			<0.57	<0.58	<0.58	<0.67	<0.67	<0.40	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	5	0.5	<0.85	<0.47	<0.47	<i>1.1</i>	<0.43	<0.36	<0.36	<0.36	<0.36	<0.36
Methyl t-Butyl Ether	60	12	<0.67	<0.87	<0.87	<0.61	<0.61	<0.49	<0.49	<0.49	<0.49	<0.49
Naphthalene	100	10	<0.59	<0.63	<0.63	<0.74	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<0.64	<0.95	<0.95	<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<0.43	<0.62	<0.62	<0.86	<0.86	<0.35	<0.35	<0.35	<0.35	<0.35
1,1,1,2-Tetrachloroethane	0.2	0.02	<0.91	<0.77	<0.77	<0.20	<0.20	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,1,2-Tetrachloroethane	70	7	<0.75	<0.95	<0.95	<0.92	<0.92	<0.45	<0.45	<0.45	<0.45	<0.45
Tetrachloroethylene	5	0.5	<0.57	<0.63	<0.63	<0.45	<0.45	<0.47	<0.47	<0.47	<0.47	<0.47
Toluene	800	160	<0.47	<0.84	<0.84	<0.67	<0.67	<0.44	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene			<0.57	<0.77	<0.77	<0.74	<0.74	<0.77	<0.77	<0.77	<0.77	<0.77
1,2,4-Trichlorobenzene	70	14	<0.60	<0.57	<0.57	<0.97	<0.97	<2.5	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	200	40	<0.69	<0.65	<0.65	<0.90	<0.90	<0.44	<0.44	<0.44	<0.44	<0.44
1,1,2-Trichloroethane	5	0.5	<0.72	<0.50	<0.50	<0.42	<0.42	<0.39	<0.39	<0.39	<0.39	<0.39
Trichloroethylene	5	0.5	<0.4	<0.39	<0.39	<0.48	<0.48	<0.36	<0.36	<0.36	<0.36	<0.36
1,2,3-Trichloropropane	60	12	<0.78	<0.92	<0.92	<0.99	<0.99	<0.47	<0.47	<0.47	<0.47	<0.47
Total Trimethylbenzenes	480	96	<1.03	<1.33	<1.33	<1.80	<1.80	<3.07	<3.07	<3.07	<3.07	<3.07
Vinyl Chloride	0.2	0.02	<0.18	<0.11	<0.11	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.94	<1.83	<1.83	<2.63	<2.63	<1.32	<1.32	<1.32	<1.32	<1.32

PAL = Preventative Action Limit  
ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit



**Table 2e**  
**CPZ3 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ3									
			8/7/02	9/24/02	12/9/02	4/3/03	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17	
<b>Detected VOC's (ug/L)</b>												
Benzene	5	0.5	<0.48	<0.25	<0.25	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<0.44	<0.74	<0.74	<0.82	<0.82	<0.48	<0.23	<0.23	<0.23	<0.23
Bromochloromethane			<0.61	<0.67	<0.67	<0.97	<0.97	<0.49	<0.34	<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.61	<0.23	<0.23	<0.56	<0.56	<0.45	<0.50	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<0.70	<0.45	<0.45	<0.94	<0.94	<0.33	<0.50	<0.50	<0.50	<0.50
Bromomethane	10	1	<0.71	<0.87	<0.87	<0.91	<0.91	<0.43	<2.4	<2.4	<2.4	<2.4
n-Butylbenzene			<0.61	<0.65	<0.65	<0.93	<0.93	<0.40	<0.50	<0.50	<0.50	<0.50
sec-Butylbenzene			<0.49	<0.62	<0.62	<0.89	<0.89	<0.60	<2.2	<2.2	<2.2	<2.2
tert-Butylbenzene			<0.50	<0.96	<0.96	<0.97	<0.97	<0.42	<0.18	<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.73	<0.47	<0.47	<0.49	<0.49	<0.37	<0.50	<0.50	<0.50	<0.50
Chlorobenzene			<0.55	<0.58	<0.58	<0.41	<0.41	<0.36	<0.50	<0.50	<0.50	<0.50
Chloroethane	400	80	<0.57	<0.84	<0.84	<0.97	<0.97	<0.44	<0.37	<0.37	<0.37	<0.37
Chloroform	6	0.6	<0.75	<0.45	<0.45	<0.37	<1.3	<0.69	<2.5	<2.5	<2.5	<2.5
Chloromethane	3	3	<0.62	<0.27	<0.27	<0.24	<0.24	<0.39	<0.50	<0.50	0.66j	<0.50
2-Chlorotoluene			<0.48	<0.66	<0.66	<0.85	<0.85	<0.48	<0.50	<0.50	<0.50	<0.50
4-Chlorotoluene			<0.72	<0.89	<0.89	<0.74	<0.74	<0.48	<0.21	<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.0	<0.88	<0.88	<0.87	<1.7	<1.5	<2.2	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.43	<0.84	<0.84	<0.81	<0.81	<1.9	<0.50	<0.50	<0.50	<0.50
1,2-Dibromoethane	0.05	0.005	<0.91	<0.66	<0.66	<0.56	<0.56	<0.38	<0.18	<0.18	<0.18	<0.18
Dibromomethane			<0.67	<0.74	<0.74	<0.60	<0.60	<0.48	<0.43	<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.67	<0.71	<0.71	<0.83	<0.83	<0.44	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.54	<0.58	<0.58	<0.87	<0.87	<0.45	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.39	<0.63	<0.63	<0.95	<0.95	<0.43	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.68	<0.57	<0.57	<0.99	<0.99	<0.40	<0.22	<0.22	<0.22	<0.22
1,1-Dichloroethane	850	85	<0.48	<0.87	<0.87	<0.36	<0.75	<0.28	<0.24	<0.24	<0.24	<0.24
1,2-Dichloroethane	5	0.5	<0.47	<0.55	<0.55	<0.36	<0.36	<0.48	<0.17	<0.17	<0.17	<0.17
1,1-Dichloroethene	7	0.7	<0.85	<0.56	<0.56	<0.57	<0.57	<0.43	<0.41	<0.41	<0.41	<0.41
cis-1,2-Dichloroethene	70	7	<0.73	<0.81	<0.81	<0.83	<0.83	<0.42	<0.26	<0.26	<0.26	<0.26
trans-1,2-Dichloroethylene	100	20	<0.79	<0.80	<0.80	<0.89	<0.89	<0.37	<0.26	<0.26	<0.26	<0.26
1,2-Dichloropropane	5	0.5	<0.53	<0.39	<0.39	<0.46	<0.49	<0.50	<0.23	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.53	<0.62	<0.62	<0.61	<0.61	<0.46	<0.50	<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.95	<0.99	<0.99	<0.62	<0.62	<0.50	<0.48	<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.85	<0.79	<0.79	<0.75	<0.75	<0.51	<0.44	<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.56	<0.57	<0.57	<0.19	<0.20	<0.29	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.51	<0.64	<0.64	<0.19	<0.19	<0.30	<0.23	<0.23	<0.23	<0.23
Diisopropyl ether			<0.60	<0.60	<0.60	<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.43	<0.53	<0.53	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene			<0.84	<0.95	<0.95	<0.67	<0.67	<1.3	<2.1	<2.1	<2.1	<2.1
Isopropylbenzene			<0.43	<0.66	<0.66	<0.59	<0.59	<0.34	<0.14	<0.14	<0.14	<0.14
p-Isopropyltoluene			<0.57	<0.58	<0.58	<0.67	<0.67	<0.40	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.85	<0.47	<0.47	<i>1.1</i>	<0.43	<0.36	<0.23	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.67	<0.87	<0.87	<0.61	<0.61	<0.49	<0.17	<0.17	<0.17	<0.17
Naphthalene	100	10	<0.59	<0.63	<0.63	<0.74	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<0.64	<0.95	<0.95	<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<0.43	<0.62	<0.62	<0.86	<0.86	<0.35	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.75	<0.95	<0.95	<0.92	<0.92	<0.45	<0.18	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.91	<0.77	<0.77	<0.20	<0.20	<0.38	<0.25	<0.25	<0.25	<0.25
Terachloroethylene	5	0.5	<0.57	<0.63	<0.63	<0.45	<0.45	<0.47	<0.50	<0.50	<0.50	<0.50
Toluene	800	160	<0.47	<0.84	<0.84	<0.67	<0.67	<0.44	<0.50	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<0.57	<0.77	<0.77	<0.74	<0.74	<0.77	<2.1	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<0.60	<0.57	<0.57	<0.97	<0.97	<2.5	<2.2	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.69	<0.65	<0.65	<0.90	<0.90	<0.44	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.72	<0.50	<0.50	<0.42	<0.42	<0.39	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	5	0.5	<0.4	<0.39	<0.39	<0.48	<0.48	<0.36	<0.33	<0.33	<0.33	<0.33
Trichlorofluoromethane	3,490	698	<0.52	<0.85	<0.85	<0.79	<0.79	<0.48	<0.18	<0.18	<0.18	<0.18
1,2,3-Trichloropropane	60	12	<0.78	<0.92	<0.92	<0.99	<0.99	<0.47	<0.50	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1.03	<1.33	<1.33	<1.80	<1.80	<3.07	<1	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.11	<0.11	<0.18	<0.18	<0.18	<0.15	<0.15	<0.15	<0.15
Total Xylenes	2,000	400	<1.94	<1.83	<1.83	<2.63	<2.63	<1.32	<1.5	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2f**  
**CPZ4 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ4				CPZ4r		
			8/7/02	9/24/02	12/9/02	4/3/03	4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>									
Benzene	5	0.5	<0.48	<1.2	<1.2	<0.41	<0.50	<0.50	<0.50
Bromobenzene			<0.44	<3.7	<3.7	<0.82	<0.23	<0.23	<0.23
Bromochloromethane			<0.61	<3.4	<3.4	<0.97	<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.61	<1.2	<1.2	<0.56	<0.50	<0.50	<b>4.1</b>
Bromoform	4.4	0.44	<0.70	<2.2	<2.2	<0.94	<0.50	<0.50	<0.50
Bromomethane	10	1	<0.71	<4.3	<4.3	<0.91	<2.4	<2.4	<2.4
n-Butylbenzene			<0.61	<3.2	<3.2	<0.93	<0.50	<0.50	<0.50
sec-Butylbenzene			<0.49	<3.1	<3.1	<0.89	<2.2	<2.2	<2.2
tert-Butylbenzene			<0.50	<4.8	<4.8	<0.97	<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.73	<2.3	<2.3	<0.49	<0.50	<0.50	<0.50
Chlorobenzene			<0.55	<2.9	<2.9	<0.41	<0.50	<0.50	<0.50
Chloroethane	400	80	<0.57	<4.2	<4.2	<0.97	<0.37	<0.37	<0.37
Chloroform	6	0.6	<i>1.5</i>	<2.2	<2.2	<0.37	<b>7.6</b>	<i>2.8j</i>	<b>44.1</b>
Chloromethane	3	3	<0.62	<1.4	<1.4	<0.24	<0.50	<0.50	<0.50
2-Chlorotoluene			<0.48	<3.3	<3.3	<0.85	<0.50	<0.50	<0.50
4-Chlorotoluene			<0.72	<4.5	<4.5	<0.74	<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.0	<4.4	<4.4	<0.87	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.43	<4.2	<4.2	<0.81	<0.50	<0.50	0.50j
1,2-Dibromoethane	0.05	0.005	<0.91	<3.3	<3.3	<0.56	<0.18	<0.18	<0.18
Dibromomethane			<0.67	<3.7	<3.7	<0.60	<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.67	<3.5	<3.5	<0.83	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.54	<2.9	<2.9	<0.87	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.39	<3.1	<3.1	<0.95	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.68	<2.8	<2.8	<0.99	<0.22	<0.22	<0.22
1,1-Dichloroethane	850	85	<0.48	<4.3	<4.3	<0.36	<0.24	<0.24	<0.24
1,2-Dichloroethane	5	0.5	<0.47	<2.8	<2.8	<0.36	<0.17	<0.17	<0.17
1,1-Dichloroethene	7	0.7	<0.85	<2.8	<2.8	<0.57	<0.41	<0.41	<0.41
cis-1,2-Dichloroethene	70	7	<0.73	<4.0	<4.0	<0.83	<0.26	<0.26	<0.26
trans-1,2-Dichloroethylene	100	20	<0.79	<4.0	<4.0	<0.89	<0.26	<0.26	<0.26
1,2-Dichloropropane	5	0.5	<0.53	<1.9	<1.9	<0.46	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.53	<3.1	<3.1	<0.61	<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.95	<5.0	<5.0	<0.62	<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.85	<4.0	<4.0	<0.75	<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.56	<2.8	<2.8	<0.19	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.51	<3.2	<3.2	<0.19	<0.23	<0.23	<0.23
Diisopropyl ether			<0.60	<3.0	<3.0	<0.76	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.43	<2.6	<2.6	<0.54	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<0.84	<4.8	<4.8	<0.67	<2.1	<2.1	<2.1
Isopropylbenzene			<0.43	<3.3	<3.3	<0.59	<0.14	<0.14	<0.14
p-Isopropyltoluene			<0.57	<2.9	<2.9	<0.67	<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.85	<2.3	<2.3	<i>1.1</i>	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.67	<4.3	<4.3	<0.61	<0.17	<0.17	<0.17
Naphthalene	100	10	<0.59	<3.1	<3.1	<0.74	<2.5	<2.5	<2.5
n-Propylbenzene			<0.64	<4.8	<4.8	<0.81	<0.50	<0.50	<0.50
Styrene	100	10	<0.43	<3.1	<3.1	<0.86	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.75	<4.8	<4.8	<0.92	<0.18	<0.18	<0.18
1,1,1,2,2-Tetrachloroethane	0.2	0.02	<0.91	<3.9	<3.9	<0.20	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>39</b>	<b>350</b>	<b>400</b>	<b>25</b>	<b>75.2</b>	<0.50	<b>19.1</b>
Toluene	800	160	<0.47	<4.2	<4.2	<0.67	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<0.57	<3.9	<3.9	<0.74	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<0.60	<2.8	<2.8	<0.97	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.69	<3.2	<3.2	<0.90	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<i>0.86</i>	<2.5	<2.5	<0.42	<0.20	<0.20	<0.20
Trichloroethylene	5	0.5	<0.4	<1.9	<1.9	<0.48	<i>0.60j</i>	<0.33	<i>0.47j</i>
Trichlorofluoromethane	3,490	698	<0.52	<4.2	<4.2	<0.79	<0.18	<0.18	<0.18
1,2,3-Trichloropropane	60	12	<0.78	<4.6	<4.6	<0.99	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1.03	<6.6	<6.6	<1.80	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.55	<0.55	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.94	<9.1	<9.1	<2.63	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2g**  
**CPZ5 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	CPZ5									
	ES	PAL	2/12/03	4/3/03	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>										
Benzene	5	0.5	2.3	<1.0	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<1.8	<2.0	<0.82	<0.48	<0.48	<0.23	<0.23	<0.23
Bromochloromethane			<1.7	<2.4	<0.97	<0.49	<0.49	<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.58	<1.4	<0.56	<0.45	<0.45	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<1.1	<2.4	<0.94	<0.33	<0.33	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.2	<2.3	<0.91	<0.43	<0.43	<2.4	<2.4	<2.4
n-Butylbenzene			<1.6	<2.3	<0.93	<0.40	<0.40	<0.50	<0.50	<0.50
sec-Butylbenzene			<1.6	<2.2	<0.89	<0.60	<0.60	<2.2	<2.2	<2.2
tert-Butylbenzene			<2.4	<2.4	<0.97	<0.42	<0.42	<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<1.2	<1.2	<0.49	<0.37	<0.37	<0.50	<0.50	<0.50
Chlorobenzene			<1.4	<1.0	<0.41	<0.36	<0.36	<0.50	<0.50	<0.50
Chloroethane	400	80	<2.1	<2.4	<0.97	<0.44	<0.44	<0.37	<0.37	<0.37
Chloroform	6	0.6	<1.1	<0.92	<1.3	<0.69	<0.69	<2.5	<2.5	<2.5
Chloromethane	3	3	<0.68	<0.60	<0.24	<0.39	<0.39	<0.50	<0.50	<0.50
2-Chlorotoluene			<1.6	<2.1	<0.85	<0.48	<0.48	<0.50	<0.50	<0.50
4-Chlorotoluene			<2.2	<1.8	<0.74	<0.48	<0.48	<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<1.7	<1.5	<1.5	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<2.1	<2.0	<0.81	<1.9	<1.9	<0.50	<0.50	<0.50
1,2-Dibromoethane	0.05	0.005	<1.6	<1.4	<0.56	<0.38	<0.38	<0.18	<0.18	<0.18
Dibromomethane			<1.8	<1.5	<0.60	<0.48	<0.48	<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<1.8	<2.1	<0.83	<0.44	<0.44	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<1.4	<2.2	<0.87	<0.45	<0.45	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<1.6	<2.4	<0.95	<0.43	<0.43	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<1.4	<2.5	<0.99	<0.40	<0.40	<0.22	<0.22	<0.22
1,1-Dichloroethane	850	85	<2.2	<1.9	<0.75	<0.28	<0.28	<0.24	<0.24	<0.24
1,2-Dichloroethane	5	0.5	<1.4	<0.90	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17
1,1-Dichloroethene	7	0.7	<1.4	<1.4	<0.57	<0.43	<0.43	<0.41	<0.41	<0.41
cis-1,2-Dichloroethene	70	7	<2.0	<2.1	<0.83	0.78j	<0.29	0.35j	1.1	0.64j
trans-1,2-Dichloroethylene	100	20	<2.0	<2.2	<0.89	0.80j	0.80j	<0.26	1.4	0.49j
1,2-Dichloropropane	5	0.5	<0.98	<1.2	<0.49	<0.50	<0.50	<0.23	<0.23	<0.23
1,3-Dichloropropane			<1.6	<1.5	<0.61	<0.46	<0.46	<0.50	<0.50	<0.50
2,2-Dichloropropane			<2.5	<1.6	<0.62	<0.50	<0.50	<0.48	<0.48	<0.48
1,1-Dichloropropene			<2.0	<1.9	<0.75	<0.51	<0.51	<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<1.4	<0.48	<0.20	<0.29	<0.29	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<1.6	<0.48	<0.19	<0.30	<0.30	<0.23	<0.23	<0.23
Diisopropyl ether			<1.5	<1.9	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<1.3	<1.4	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.4	<1.7	<0.67	<1.3	<1.3	<2.1	<2.1	<2.1
Isopropylbenzene			<1.6	<1.5	<0.59	<0.34	<0.34	<0.14	<0.14	<0.14
p-Isopropyltoluene			<1.4	<1.7	<0.67	<0.40	<0.40	<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<1.2	<1.1	<0.43	<0.36	<0.36	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<2.2	<1.5	<0.61	<0.49	<0.49	<0.17	<0.17	<0.17
Naphthalene	100	10	<1.6	<1.8	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<2.4	<2.0	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<1.6	<2.2	<0.86	<0.35	<0.35	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<2.4	<2.3	<0.92	<0.45	<0.45	<0.18	<0.18	<0.18
1,1,1,2,2-Tetrachloroethane	0.2	0.02	<1.9	<0.50	<0.20	<0.38	<0.38	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>470</b>	<b>400</b>	<b>95.7</b>	<i>0.57j</i>	<b>31.9</b>	<b>32.0</b>	<b>93.5</b>	<b>116.0</b>
Toluene	800	160	<2.1	<1.7	<0.67	<0.44	<0.44	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<1.9	<1.8	<0.74	<0.77	<0.77	<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<1.4	<2.4	<0.97	<2.5	<2.5	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<1.6	<2.2	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<1.2	<1.0	<0.42	<0.39	<0.39	<0.20	<0.20	<0.20
Trichloroethylene	5	0.5	<b>22</b>	<b>9.6</b>	<b>46.1</b>	<b>57.9</b>	<b>21.7</b>	<b>24.4</b>	<b>60.4</b>	<b>49.8</b>
Trichlorofluoromethane	3,490	698	<2.1	<2.0	<0.79	<0.48	<0.48	<0.18	<0.18	<0.18
1,2,3-Trichloropropane	60	12	<2.3	<2.5	<0.99	<0.47	<0.47	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<3.3	<4.5	<1.80	<3.07	<3.07	<1.0	<1.0	<1.0
Vinyl Chloride	0.2	0.02	<0.28	<0.46	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<4.6	<6.6	<2.63	<1.32	<1.32	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2h**  
**CPZ6 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	CPZ6									
	ES	PAL	2/12/03	4/3/03	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>										
Benzene	5	0.5	<0.62	<0.41	<0.41	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<1.8	<0.82	<0.82	<0.48	<0.48	<0.48	<0.48	<0.23
Bromochloromethane			<1.7	<0.97	<0.97	<0.49	<0.49	<0.49	<0.49	<0.34
Bromodichloromethane	0.6	0.06	<0.58	<0.56	<0.56	<b>1.3</b>	<b>0.90j</b>	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<1.1	<0.94	<0.94	<0.33	<0.33	<0.33	<0.33	<0.50
Bromomethane	10	1	<2.2	<0.91	<0.91	<0.43	<0.43	<0.43	<0.43	<2.4
n-Butylbenzene			<1.6	<0.93	<0.93	<0.40	<0.40	<0.40	<0.40	<0.50
sec-Butylbenzene			<1.6	<0.89	<0.89	<0.60	<0.60	<0.60	<0.60	<2.2
tert-Butylbenzene			<2.4	<0.97	<0.97	<0.42	<0.42	<0.42	<0.42	<0.18
Carbon Tetrachloride	5	0.5	<1.2	<0.49	<0.49	<0.37	<0.37	<0.37	<0.37	<0.50
Chlorobenzene			<1.4	<0.41	<0.41	<0.36	<0.36	<0.36	<0.36	<0.50
Chloroethane	400	80	<2.1	<0.97	<0.97	<0.44	<0.44	<0.44	<0.44	<0.37
Chloroform	6	0.6	<1.1	<0.37	<i>2.0j</i>	<b>19.6</b>	<b>12.9</b>	<2.5	<2.5	<2.5
Chloromethane	3	3	<0.68	<0.24	<0.24	<0.39	<0.39	<0.39	<0.39	<0.50
2-Chlorotoluene			<1.6	<0.85	<0.85	<0.48	<0.48	<0.48	<0.48	<0.50
4-Chlorotoluene			<2.2	<0.74	<0.74	<0.48	<0.48	<0.48	<0.48	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<0.87	<1.7	<1.5	<1.5	<1.5	<1.5	<2.2
Dibromochloromethane	60	6	<2.1	<0.81	<0.81	<1.9	<1.9	<1.9	<1.9	<0.50
1,2-Dibromoethane	0.05	0.005	<1.6	<0.56	<0.56	<0.38	<0.38	<0.38	<0.38	<0.18
Dibromomethane			<1.8	<0.60	<0.60	<0.48	<0.48	<0.48	<0.48	<0.43
1,2-Dichlorobenzene	600	60	<1.8	<0.83	<0.83	<0.44	<0.44	<0.44	<0.44	<0.50
1,3-Dichlorobenzene	600	120	<1.4	<0.87	<0.87	<0.45	<0.45	<0.45	<0.45	<0.50
1,4-Dichlorobenzene	75	15	<1.6	<0.95	<0.95	<0.43	<0.43	<0.43	<0.43	<0.50
Dichlorodifluoromethane	1,000	200	<1.4	<0.99	<0.99	<0.40	<0.40	<0.40	<0.40	<0.22
1,1-Dichloroethane	850	85	<2.2	<0.36	<0.75	<0.28	<0.28	<0.28	<0.28	<0.24
1,2-Dichloroethane	5	0.5	<1.4	<0.36	<0.36	<0.48	<0.48	<0.48	<0.48	<0.17
1,1-Dichloroethene	7	0.7	<1.4	<0.57	<0.57	<0.43	<0.43	<0.43	<0.43	<0.41
cis-1,2-Dichloroethene	70	7	<2.0	<0.83	<0.83	<0.42	<0.42	<0.42	<0.42	<0.26
trans-1,2-Dichloroethylene	100	20	2.1	<0.89	<0.89	<0.37	<0.37	<0.37	<0.37	<0.26
1,2-Dichloropropane	5	0.5	<0.98	<0.46	<0.49	<0.50	<0.50	<0.50	<0.50	<0.23
1,3-Dichloropropane			<1.6	<0.61	<0.61	<0.46	<0.46	<0.46	<0.46	<0.50
2,2-Dichloropropane			<2.5	<0.62	<0.62	<0.50	<0.50	<0.50	<0.50	<0.48
1,1-Dichloropropene			<2.0	<0.75	<0.75	<0.51	<0.51	<0.51	<0.51	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<1.4	<0.19	<0.20	<0.29	<0.29	<0.29	<0.29	<0.26
trans-1,3-Dichloropropene	0.4	0.04	<1.6	<0.19	<0.19	<0.30	<0.30	<0.30	<0.30	<0.26
Diisopropyl ether			<1.5	<0.76	<0.76	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<1.3	<0.54	<0.54	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene			<2.4	<0.67	<0.67	<1.3	<1.3	<1.3	<1.3	<2.1
Isopropylbenzene			<1.6	<0.59	<0.59	<0.34	<0.34	<0.34	<0.34	<0.14
p-Isopropyltoluene			<1.4	<0.67	<0.67	<0.40	<0.40	<0.40	<0.40	<0.50
Methylene Chloride	5	0.5	<1.2	<i>0.84</i>	<0.43	<0.36	<0.36	<0.36	<0.36	<0.23
Methyl t-Butyl Ether	60	12	<2.2	<0.61	<0.61	<0.49	<0.49	<0.49	<0.49	<0.17
Naphthalene	100	10	<1.6	<0.74	<0.89	<2.5	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<2.4	<0.81	<0.81	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<1.6	<0.86	<0.86	<0.35	<0.35	<0.35	<0.35	<0.50
1,1,1,2-Tetrachloroethane	70	7	<2.4	<0.92	<0.92	<0.45	<0.45	<0.45	<0.45	<0.18
1,1,1,2,2-Tetrachloroethane	0.2	0.02	<1.9	<0.20	<0.20	<0.38	<0.38	<0.38	<0.38	<0.25
Tetrachloroethylene	5	0.5	<b>250</b>	<b>63</b>	<0.45	<0.47	<0.47	<0.47	<0.47	<i>0.95j</i>
Toluene	800	160	<2.1	<0.67	<0.67	<0.44	<0.44	<0.44	<0.44	<0.50
1,2,3-Trichlorobenzene			<1.9	<0.74	<0.74	<0.77	<0.77	<0.77	<0.77	<2.1
1,2,4-Trichlorobenzene	70	14	<1.4	<0.97	<0.97	<2.5	<2.5	<2.5	<2.5	<2.2
1,1,1-Trichloroethane	200	40	<1.6	<0.90	<0.90	<0.44	<0.44	<0.44	<0.44	<0.50
1,1,2-Trichloroethane	5	0.5	<1.2	<0.42	<0.42	<0.39	<0.39	<0.39	<0.39	<0.20
Trichloroethylene	5	0.5	<b>20</b>	<i>3.7</i>	<0.48	<0.36	<0.36	<0.36	<0.36	<i>0.53j</i>
Trichlorofluoromethane	3,490	698	<2.1	<0.79	<0.79	<0.48	<0.48	<0.48	<0.48	<0.18
1,2,3-Trichloropropane	60	12	<2.3	<0.99	<0.99	<0.47	<0.47	<0.47	<0.47	<0.50
Total Trimethylbenzenes	480	96	<3.3	<1.80	<1.80	<3.07	<3.07	<3.07	<3.07	<1
Vinyl Chloride	0.2	0.02	<0.28	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<4.6	<2.63	<2.63	<1.32	<1.32	<1.32	<1.32	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2i**  
**PZWR2 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	PZWR2					
			6/13/12	9/10/13	3/5/14	4/28/16	7/5/17	6/23/17
<b>Detected VOC's (ug/L)</b>								
Benzene	5	0.5	<10.2	<0.50	<2.5	<10.0	<2.5	<2.5
Bromobenzene			<20.5	<0.48	<2.4	<4.6	<1.2	<1.2
Bromochloromethane			<24.2	<0.49	<2.5	<6.8	<1.7	<1.7
Bromodichloromethane	0.6	0.06	<14.0	<0.45	<2.3	<10.0	<2.5	<2.5
Bromoform	4.4	0.44	<23.5	<0.33	<1.6	<10.0	<2.5	<2.5
Bromomethane	10	1	<22.8	<0.43	<2.1	<48.7	<12.2	<12.2
n-Butylbenzene			<23.2	<0.40	<2.0	<10.0	<2.5	<2.5
sec-Butylbenzene			<22.2	<0.60	<3.0	<43.7	<10.9	<10.9
tert-Butylbenzene			<24.2	<0.42	<2.1	<3.6	<0.90	<0.90
Carbon Tetrachloride	5	0.5	<12.2	<0.37	<1.8	<10.0	<2.5	<2.5
Chlorobenzene			<10.2	<0.36	<1.8	<10.0	<2.5	<2.5
Chloroethane	400	80	<24.2	<0.44	<2.2	<7.5	<1.9	<1.9
Chloroform	6	0.6	<32.5	<0.69	<3.4	<50.0	<12.5	<b>26.2</b>
Chloromethane	3	3	<6.0	<0.39	<1.9	<10.0	<b>3.6j</b>	<2.5
2-Chlorotoluene			<21.2	<0.48	<2.4	<10.0	<2.5	<2.5
4-Chlorotoluene			<18.5	<0.48	<2.4	<4.3	<1.1	<1.1
1,2-Dibromo-3-chloropropane	0.2	0.02	<42.0	<1.5	<7.5	<43.3	<10.8	<10.8
Dibromochloromethane	60	6	<20.2	<1.9	<9.5	<10.0	<2.5	<2.5
1,2-Dibromoethane	0.05	0.005	<14.0	<0.38	<1.9	<3.6	<0.89	<0.89
Dibromomethane			<15.0	<0.48	<2.4	<8.5	<2.1	<2.1
1,2-Dichlorobenzene	600	60	<20.8	<0.44	<2.2	<10.0	<2.5	<2.5
1,3-Dichlorobenzene	600	120	<21.8	<0.45	<2.3	<10.0	<2.5	<2.5
1,4-Dichlorobenzene	75	15	<23.8	<0.43	<2.2	<10.0	<2.5	<2.5
Dichlorodifluoromethane	1,000	200	<24.8	<0.40	<2.0	<4.5	<1.1	<1.1
1,1-Dichloroethane	850	85	<18.8	<0.28	<2.1	<4.8	<1.2	<1.2
1,2-Dichloroethane	5	0.5	<9.0	<0.48	<2.4	<3.4	<0.84	<0.84
1,1-Dichloroethene	7	0.7	<14.2	<0.43	<2.1	<8.2	<2.1	<2.1
cis-1,2-Dichloroethene	70	7	<20.8	<0.42	<2.1	<5.1	<1.3	<1.3
trans-1,2-Dichloroethylene	100	20	<22.2	<0.37	<1.9	<5.1	<1.3	<1.3
1,2-Dichloropropane	5	0.5	<12.2	<0.50	<2.5	<4.7	<1.2	<1.2
1,3-Dichloropropane			<15.2	<0.46	<2.3	<10.0	<2.5	<2.5
2,2-Dichloropropane			<15.5	<0.50	<2.5	<9.7	<2.4	<2.4
1,1-Dichloropropene			<18.8	<0.51	<2.5	<8.8	<2.2	<2.2
cis-1,3-Dichloropropene	0.4	0.04	<5.0	<0.29	<1.5	<10.0	<2.5	<2.5
trans-1,3-Dichloropropene	0.4	0.04	<4.8	<0.30	<1.5	<4.6	<1.1	<1.1
Diisopropyl ether			<19.0	<0.50	<2.5	<10.0	<2.5	<2.5
Ethylbenzene	700	140	<13.5	<0.50	<2.5	<10.0	<2.5	<2.5
Hexachloro-1,3-butadiene			<16.8	<1.3	<6.3	<42.1	<10.5	<10.5
Isopropylbenzene			<14.8	<0.34	<1.7	<2.9	<0.72	<0.72
p-Isopropyltoluene			<16.8	<0.40	<2.0	<10.0	<2.5	<2.5
Methylene Chloride	5	0.5	<10.8	<0.36	<1.8	<4.7	<1.2	<i>1.3j</i>
Methyl t-Butyl Ether	60	12	<15.2	<0.49	<2.5	<3.5	<0.87	<0.87
Naphthalene	100	10	<22.2	<2.5	<12.5	<50.0	<12.5	<12.5
n-Propylbenzene			<20.2	<0.50	<2.5	<10.0	<2.5	<2.5
Styrene	100	10	<21.5	<0.35	<1.7	<10.0	<2.5	<2.5
1,1,1,2-Tetrachloroethane	70	7	<23.0	<0.45	<2.3	<3.6	<0.90	<0.90
1,1,1,2,2-Tetrachloroethane	0.2	0.02	<5.0	<0.38	<1.9	<5.0	<1.2	<1.2
Tetrachloroethylene	5	0.5	<b>1,240</b>	<b>79.3</b>	<b>650</b>	<b>2,260</b>	<b>543</b>	<b>1,420</b>
Toluene	800	160	<16.8	<0.44	<2.2	<10.0	<2.5	<2.5
1,2,3-Trichlorobenzene			<18.5	<0.77	<3.8	<42.7	<10.7	<10.7
1,2,4-Trichlorobenzene	70	14	<24.2	<2.5	<12.5	<44.2	<11.0	<11.0
1,1,1-Trichloroethane	200	40	<22.5	<0.44	<2.2	<10.0	<2.5	<2.5
1,1,2-Trichloroethane	5	0.5	<10.5	<0.39	<1.9	<3.9	<0.99	<0.99
Trichloroethylene	5	0.5	<12.0	<0.36	<i>3.7j</i>	<b>7.3j</b>	<1.7	<b>10.6</b>
Trichlorofluoromethane	3,490	698	<19.8	<0.48	<2.4	<3.7	<0.92	<0.92
1,2,3-Trichloropropane	60	12	<24.8	<0.47	<2.3	<10.0	<2.5	<2.5
Total Trimethylbenzenes	480	96	<45	<3.07	<5	<20	<5	<5
Vinyl Chloride	0.2	0.02	<4.5	<0.18	<0.92	<3.5	<0.88	<0.88
Total Xylenes	2,000	400	<65.8	<1.32	<6.6	<30	<7.5	<7.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>	= Exceeds Enforcement Standard
<i>Italic</i>	= Exceeds Preventative Action Limit

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2j**  
**PZWR3 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	PZWR3						
	ES	PAL	6/13/12	9/10/13	3/5/14	4/28/16	7/5/17
<b>Detected VOC's (ug/L)</b>							
Benzene	5	0.5	<0.41	<0.50	<0.50	<0.50	<0.50
Bromobenzene			<0.82	<0.48	<0.48	<0.48	<0.48
Bromochloromethane			<0.97	<0.49	<0.49	<0.49	<0.49
Bromodichloromethane	0.6	0.06	<0.56	<0.45	<0.45	<0.45	<0.45
Bromoform	4.4	0.44	<0.94	<0.33	<0.33	<0.33	<0.33
Bromomethane	10	1	<0.91	<0.43	<0.43	<0.43	<0.43
sec-Butylbenzene			<0.89	<0.60	<0.60	<0.60	<0.60
tert-Butylbenzene			<0.97	<0.42	<0.42	<0.42	<0.42
n-Butylbenzene			<0.93	<0.40	<0.40	<0.40	<0.40
Carbon Tetrachloride	5	0.5	<0.49	<0.37	<0.37	<0.37	<0.37
Chloroform	6	0.6	<1.3	<0.69	<0.69	<0.69	<0.69
Chlorobenzene			<0.41	<0.36	<0.36	<0.36	<0.36
Chlorodibromomethane	60	6	<0.81	<1.9	<1.9	<1.9	<1.9
Chloroethane	400	80	<0.97	<0.44	<0.44	<0.44	<0.44
Chloromethane	3	3	<0.24	<0.39	<0.39	<0.39	0.60j
2-Chlorotoluene			<0.85	<0.48	<0.48	<0.48	<0.48
4-Chlorotoluene			<0.74	<0.48	<0.48	<0.48	<0.48
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.5	<1.5	<1.5	<1.5
1,2-Dibromoethane	0.05	0.005	<0.56	<0.38	<0.38	<0.38	<0.38
Dibromomethane			<0.60	<0.48	<0.48	<0.48	<0.48
1,3-Dichlorobenzene	600	120	<0.87	<0.45	<0.45	<0.45	<0.45
1,4-Dichlorobenzene	75	15	<0.95	<0.43	<0.43	<0.43	<0.43
1,2-Dichloroethane	5	0.5	<0.36	<0.48	<0.48	<0.48	<0.48
1,2-Dichlorobenzene	600	60	<0.83	<0.44	<0.44	<0.44	<0.44
1,1-Dichloroethene	7	0.7	<0.57	<0.43	<0.43	<0.43	<0.43
cis-1,2-Dichloroethene	70	7	<0.83	<0.42	<0.42	<0.42	<0.42
Dichlorodifluoromethane	1,000	200	<0.99	<0.40	<0.40	<0.40	<0.40
trans-1,2-Dichloroethylene	100	20	<0.89	<0.37	<0.37	<0.37	<0.37
1,2-Dichloropropane	5	0.5	<0.49	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	850	85	<0.75	<0.28	<0.28	<0.28	<0.28
1,3-Dichloropropane			<0.61	<0.46	<0.46	<0.46	<0.46
2,2-Dichloropropane			<0.62	<0.50	<0.50	<0.50	<0.50
1,1-Dichloropropene			<0.75	<0.51	<0.51	<0.51	<0.51
cis-1,3-Dichloropropene	0.4	0.04	<0.20	<0.29	<0.29	<0.29	<0.29
trans-1,3-Dichloropropene	0.4	0.04	<0.19	<0.30	<0.30	<0.30	<0.30
Diisopropyl ether			<0.76	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.54	<0.50	<0.50	<0.50	<0.50
Fluorotrichloromethane	3,490	698	<0.79	<0.48	<0.48	<0.48	<0.48
Hexachlorobutadiene			<0.67	<1.3	<1.3	<1.3	<1.3
Isopropylbenzene			<0.59	<0.34	<0.34	<0.34	<0.34
p-Isopropyltoluene			<0.67	<0.40	<0.40	<0.40	<0.40
Methylene Chloride	5	0.5	<0.43	<0.36	<0.36	<0.36	<0.36
Methyl t-Butyl Ether	60	12	<0.61	<0.49	<0.49	<0.49	<0.49
Naphthalene	100	10	<0.89	<2.5	<2.5	<2.5	<2.5
n-Propylbenzene			<0.81	<0.50	<0.50	<0.50	<0.50
Styrene	100	10	<0.86	<0.35	<0.35	<0.35	<0.35
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.38	<0.38	<0.38	<0.38
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.45	<0.45	<0.45	<0.45
Tetrachloroethylene	5	0.5	<0.45	0.57j	<0.47	<0.47	<0.47
Toluene	800	160	<0.67	<0.44	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene			<0.74	<0.77	<0.77	<0.77	<0.77
1,2,4-Trichlorobenzene	70	14	<0.97	<2.5	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	200	40	<0.90	<0.44	<0.44	<0.44	<0.44
1,1,2-Trichloroethane	5	0.5	<0.42	<0.39	<0.39	<0.39	<0.39
Trichloroethylene	5	0.5	<0.48	<0.36	<0.36	<0.36	<0.36
1,2,3-Trichloropropane	60	12	<0.99	<0.47	<0.47	<0.47	<0.47
Total Trimethylbenzenes	480	96	<1.80	<3.07	<3.07	<3.07	<3.07
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<2.63	<1.32	<1.32	<1.32	<1.32

PAL = Preventative Action Limit

ES = Enforcement Standards

**BOLD** = Exceeds Enforcement Standard

*Italic* = Exceeds Preventative Action Limit

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2k**  
**Sprinkler East Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	Sprinkler East - CV062				
	ES	PAL	4/23/03	9/10/13	8/15/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<0.41	<0.50	<0.25
Bromobenzene			<0.82	<0.48	<0.24
Bromochloromethane			<0.97	<0.49	<0.36
Bromodichloromethane	0.6	0.06	<0.56	<0.45	<0.36
Bromoform	4.4	0.44	<0.94	<0.33	<4.0
Bromomethane	10	1	<0.91	<0.43	<0.97
n-Butylbenzene			<0.93	<0.40	<0.71
sec-Butylbenzene			<0.89	<0.60	<0.85
tert-Butylbenzene			<0.97	<0.42	<0.30
Carbon Tetrachloride	5	0.5	<0.49	<0.37	<0.17
Chlorobenzene			<0.41	<0.36	<0.71
Chloroethane	400	80	<0.97	<0.44	<1.3
Chloroform	6	0.6	<0.37	<0.69	<1.3
Chloromethane	3	3	<0.24	<0.39	<2.2
2-Chlorotoluene			<0.85	<0.48	<0.93
4-Chlorotoluene			<0.74	<0.48	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<0.87	<1.5	<1.8
Dibromochloromethane	60	6	<0.81	<1.9	<2.6
1,2-Dibromoethane	0.05	0.005	<0.56	<0.38	<0.83
Dibromomethane			<0.60	<0.48	<0.94
1,2-Dichlorobenzene	600	60	<0.83	<0.44	<0.71
1,3-Dichlorobenzene	600	120	<0.87	<0.45	<0.63
1,4-Dichlorobenzene	75	15	<0.95	<0.43	<0.94
Dichlorodifluoromethane	1,000	200	<0.99	<0.40	<0.50
1,1-Dichloroethane	850	85	<0.36	<0.28	<0.27
1,2-Dichloroethane	5	0.5	<0.36	<0.48	<0.28
1,1-Dichloroethene	7	0.7	<0.57	<0.43	<0.24
cis-1,2-Dichloroethene	70	7	1.0	3.1	8.6
trans-1,2-Dichloroethylene	100	20	<0.89	4.1	13.3
1,2-Dichloropropane	5	0.5	<0.46	<0.50	<0.28
1,3-Dichloropropane			<0.61	<0.46	<0.83
2,2-Dichloropropane			<0.62	<0.50	<2.3
1,1-Dichloropropene			<0.75	<0.51	<0.54
cis-1,3-Dichloropropene	0.4	0.04	<0.19	<0.29	<3.6
trans-1,3-Dichloropropene	0.4	0.04	<0.19	<0.30	<4.4
Diisopropyl ether			<0.76	<0.50	<1.9
Ethylbenzene	700	140	<0.54	<0.50	<0.22
Hexachlorobutadiene			<0.67	<1.3	<1.2
Isopropylbenzene			<0.59	<0.34	<0.39
p-Isopropyltoluene			<0.67	<0.40	<0.80
Methylene Chloride	5	0.5	<0.43	<0.36	<0.58
Methyl t-Butyl Ether	60	12	<0.61	<0.49	<1.2
Naphthalene	100	10	<0.74	<2.5	<1.2
n-Propylbenzene			<0.81	<0.50	<0.81
Styrene	100	10	<0.86	<0.35	<0.47
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.45	<0.27
1,1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.38	<0.28
Terachloroethylene	5	0.5	<b>81</b>	<b>57.7</b>	<b>29.2</b>
Toluene	800	160	<0.67	<0.44	<0.17
1,2,3-Trichlorobenzene			<0.74	<0.77	<0.63
1,2,4-Trichlorobenzene	70	14	<0.97	<2.5	<0.95
1,1,1-Trichloroethane	200	40	<0.90	<0.44	<0.24
1,1,2-Trichloroethane	5	0.5	<0.42	<0.39	<0.55
Trichloroethylene	5	0.5	<b>57</b>	<b>76.3</b>	<b>77.7</b>
Trichlorofluoromethane	3,490	698	<0.79	<0.48	<0.21
1,2,3-Trichloropropane	60	12	<0.99	<0.47	<0.59
Total Trimethylbenzenes	480	96	<1.80	<3.07	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<2.63	<1.32	<0.73

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 21**  
**Sprinkler West Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	Sprinkler West - CV063				
	ES	PAL	4/23/03	9/10/13	8/15/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<0.41	<0.50	<0.25
Bromobenzene			<0.82	<0.48	<0.24
Bromochloromethane			<0.97	<0.49	<0.36
Bromodichloromethane	0.6	0.06	<0.56	<0.45	<0.36
Bromoform	4.4	0.44	<0.94	<0.33	<4.0
Bromomethane	10	1	<0.91	<0.43	<0.97
n-Butylbenzene			<0.93	<0.40	<0.71
sec-Butylbenzene			<0.89	<0.60	<0.85
tert-Butylbenzene			<0.97	<0.42	<0.30
Carbon Tetrachloride	5	0.5	<0.49	<0.37	<0.17
Chlorobenzene			<0.41	<0.36	<0.71
Chloroethane	400	80	<0.97	<0.44	<1.3
Chloroform	6	0.6	<0.37	<0.69	<1.3
Chloromethane	3	3	<0.24	<0.39	<2.2
2-Chlorotoluene			<0.85	<0.48	<0.93
4-Chlorotoluene			<0.74	<0.48	<0.76
1,2-Dibromo-3-chloropropane	0.2	0.02	<0.87	<1.5	<1.8
Dibromochloromethane	60	6	<0.81	<1.9	<2.6
1,2-Dibromoethane	0.05	0.005	<0.56	<0.38	<0.83
Dibromomethane			<0.60	<0.48	<0.94
1,2-Dichlorobenzene	600	60	<0.83	<0.44	<0.71
1,3-Dichlorobenzene	600	120	<0.87	<0.45	<0.63
1,4-Dichlorobenzene	75	15	<0.95	<0.43	<0.94
Dichlorodifluoromethane	1,000	200	<0.99	<0.40	<0.50
1,1-Dichloroethane	850	85	<0.36	<0.28	<0.27
1,2-Dichloroethane	5	0.5	<0.36	<0.48	<0.28
1,1-Dichloroethene	7	0.7	<0.57	<0.43	<0.24
cis-1,2-Dichloroethene	70	7	<0.83	7.2	8.7
trans-1,2-Dichloroethylene	100	20	<0.89	9.6	10.1
1,2-Dichloropropane	5	0.5	<0.46	<0.50	<0.28
1,3-Dichloropropane			<0.61	<0.46	<0.83
2,2-Dichloropropane			<0.62	<0.50	<2.3
1,1-Dichloropropene			<0.75	<0.51	<0.54
cis-1,3-Dichloropropene	0.4	0.04	<0.19	<0.29	<3.6
trans-1,3-Dichloropropene	0.4	0.04	<0.19	<0.30	<4.4
Diisopropyl ether			<0.76	<0.50	<1.9
Ethylbenzene	700	140	<0.54	<0.50	<0.22
Hexachlorobutadiene			<0.67	<1.3	<1.2
Isopropylbenzene			<0.59	<0.34	<0.39
p-Isopropyltoluene			<0.67	<0.40	<0.80
Methylene Chloride	5	0.5	<0.86	<0.36	<0.58
Methyl t-Butyl Ether	60	12	<0.61	<0.49	<1.2
Naphthalene	100	10	<0.74	<2.5	<1.2
n-Propylbenzene			<0.81	<0.50	<0.81
Styrene	100	10	<0.86	<0.35	<0.47
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.45	<0.27
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.38	<0.28
Terachloroethylene	5	0.5	<b>340</b>	<b>5.4</b>	<b>11.6</b>
Toluene	800	160	<0.67	<0.44	<0.17
1,2,3-Trichlorobenzene			<0.74	<0.77	<0.63
1,2,4-Trichlorobenzene	70	14	<0.97	<2.5	<0.95
1,1,1-Trichloroethane	200	40	<0.90	<0.44	<0.24
1,1,2-Trichloroethane	5	0.5	<0.42	<0.39	<0.55
Trichloroethylene	5	0.5	<b>35</b>	<b>47.9</b>	<b>56.5</b>
Trichlorofluoromethane	3,490	698	<0.79	<0.48	<0.21
1,2,3-Trichloropropane	60	12	<0.99	<0.47	<0.59
Total Trimethylbenzenes	480	96	<1.80	<3.07	<1.71
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.17
Total Xylenes	2,000	400	<2.63	<1.32	<0.73

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit



**Table 2m**  
**MWWR1 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	MWWR1			
			6/13/12	3/5/14	4/28/16	7/7/17
<b>Detected VOC's (ug/L)</b>						
Benzene	5	0.5	<0.41	<0.50	<0.50	<0.50
Bromobenzene			<0.82	<0.48	<0.48	<0.48
Bromochloromethane			<0.97	<0.49	<0.49	<0.49
Bromodichloromethane	0.6	0.06	<0.56	<0.45	<0.45	3.2
Bromoform	4.4	0.44	<0.94	<0.33	<0.33	<0.33
Bromomethane	10	1	<0.91	<0.43	<0.43	<0.43
sec-Butylbenzene			<0.89	<0.60	<0.60	<0.60
tert-Butylbenzene			<0.97	<0.42	<0.42	<0.42
n-Butylbenzene			<0.93	<0.40	<0.40	<0.40
Carbon Tetrachloride	5	0.5	<0.49	<0.37	<0.37	<0.37
Chloroform	6	0.6	<1.3	<0.69	<0.69	<b>37.1</b>
Chlorobenzene			<0.41	<0.36	<0.36	<0.36
Chlorodibromomethane	60	6	<0.81	<1.9	<1.9	<1.9
Chloroethane	400	80	<0.97	<0.44	<0.44	<0.44
Chloromethane	3	3	<0.24	<0.39	<0.39	<0.39
2-Chlorotoluene			<0.85	<0.48	<0.48	<0.48
4-Chlorotoluene			<0.74	<0.48	<0.48	<0.48
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.7	<1.5	<1.5	<1.5
1,2-Dibromoethane	0.05	0.005	<0.56	<0.38	<0.38	<0.38
Dibromomethane			<0.60	<0.48	<0.48	<0.48
1,3-Dichlorobenzene	600	120	<0.87	<0.45	<0.45	<0.45
1,4-Dichlorobenzene	75	15	<0.95	<0.43	<0.43	<0.43
1,2-Dichloroethane	5	0.5	<0.36	<0.48	<0.48	<0.48
1,2-Dichlorobenzene	600	60	<0.83	<0.44	<0.44	<0.44
1,1-Dichloroethene	7	0.7	<0.57	<0.43	<0.43	<0.43
cis-1,2-Dichloroethene	70	7	<0.83	<0.42	<0.42	<0.42
Dichlorodifluoromethane	1,000	200	<0.99	<0.40	<0.40	<0.40
trans-1,2-Dichloroethylene	100	20	<0.89	<0.37	<0.37	<0.37
1,2-Dichloropropane	5	0.5	<0.49	<0.50	<0.50	<0.50
1,1-Dichloroethane	850	85	<0.75	<0.28	<0.28	<0.28
1,3-Dichloropropane			<0.61	<0.46	<0.46	<0.46
2,2-Dichloropropane			<0.62	<0.50	<0.50	<0.50
1,1-Dichloropropene			<0.75	<0.51	<0.51	<0.51
cis-1,3-Dichloropropene	0.4	0.04	<0.20	<0.29	<0.29	<0.29
trans-1,3-Dichloropropene	0.4	0.04	<0.19	<0.30	<0.30	<0.30
Diisopropyl ether			<0.76	<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.54	<0.50	<0.50	<0.50
Fluorotrichloromethane	3,490	698	<0.79	<0.48	<0.48	<0.48
Hexachlorobutadiene			<0.67	<1.3	<1.3	<1.3
Isopropylbenzene			<0.59	<0.34	<0.34	<0.34
p-Isopropyltoluene			<0.67	<0.40	<0.40	<0.40
Methylene Chloride	5	0.5	<0.43	<0.36	<0.36	<0.36
Methyl t-Butyl Ether	60	12	<0.61	<0.49	<0.49	<0.49
Naphthalene	100	10	<0.89	<2.5	<2.5	<2.5
n-Propylbenzene			<0.81	<0.50	<0.50	<0.50
Styrene	100	10	<0.86	<0.35	<0.35	<0.35
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.38	<0.38	<0.38
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.45	<0.45	<0.45
Terachloroethylene	5	0.5	<0.45	<0.47	<0.47	<0.47
Toluene	800	160	<0.67	<0.44	<0.44	<0.44
1,2,3-Trichlorobenzene			<0.74	<0.77	<0.77	<0.77
1,2,4-Trichlorobenzene	70	14	<0.97	<2.5	<2.5	<2.5
1,1,1-Trichloroethane	200	40	<0.90	<0.44	<0.44	<0.44
1,1,2-Trichloroethane	5	0.5	<0.42	<0.39	<0.39	<0.39
Trichloroethylene	5	0.5	<0.48	<0.36	<0.36	<0.36
1,2,3-Trichloropropane	60	12	<0.99	<0.47	<0.47	<0.47
Total Trimethylbenzenes	480	96	<1.80	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<2.63	<1.32	<1.32	<1.32

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2n**  
**Groundwater Profile Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	GWP1 6/5/14	GWP2 6/5/14	GWP3 6/5/14	GWP4 6/5/14	GWP5 6/5/14
<b>Detected VOC's (ug/L)</b>							
Benzene	5	0.5	<0.50	<0.50	<b>16.4</b>	<b>6.4</b>	<0.50
Bromobenzene			<0.23	<0.23	<0.58	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.85	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	<1.2	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50	<1.2	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<6.1	<2.4	<2.4
sec-Butylbenzene			<2.2	<2.2	<5.5	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.45	<0.18	<0.18
n-Butylbenzene			<0.50	<0.50	<1.2	<0.50	<0.50
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<1.2	<0.50	<0.50
Chloroform	6	0.6	<2.5	<2.5	<6.2	<2.5	<2.5
Chlorobenzene			<0.50	<0.50	<1.2	<0.50	<0.50
Chlorodibromomethane	60	6	<0.32	<0.32	<0.80	<0.32	<0.32
Chloroethane	400	80	<0.37	<0.37	<0.94	<0.37	<0.37
Chloromethane	3	3	<0.50	<0.50	<1.2	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50	<1.2	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<1.2	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<5.4	<2.2	<2.2
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.41	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<1.1	<0.43	<0.43
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<1.2	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<1.2	<0.50	<0.50
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.42	<0.18	<0.18
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<1.2	<0.50	<0.50
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<1.0	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	0.91j	1.1	3.0	2.7	<0.26
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.39	<0.16	<0.16
trans-1,2-Dichloroethylene	100	20	<0.24	<0.24	2.2j	3.0	<0.24
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.58	<0.23	<0.23
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.46	<0.18	<0.18
1,3-Dichloropropane			<0.50	<0.50	<1.2	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<1.2	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<1.1	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<1.2	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.57	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<1.2	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<1.2	<0.50	<0.50
Fluorotrichloromethane	3,490	698	<0.17	<0.17	<0.43	<0.17	<0.17
Hexachlorobutadiene			<2.1	<2.1	<5.3	<2.1	<2.1
Isopropylbenzene			<0.12	<0.12	<0.29	<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50	<1.2	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.58	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.17	0.38j	12.6	1.5	<0.17
Naphthalene	100	10	<2.5	<2.5	<6.2	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<1.2	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<1.2	<0.50	<0.50
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.62	<0.25	<0.25
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.45	<0.18	<0.18
Tetrachloroethylene	5	0.5	<b>26.2</b>	2.3	<b>73.5</b>	<b>77.4</b>	<0.50
Toluene	800	160	<0.50	<0.50	<1.2	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<5.3	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<5.5	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<1.2	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.39	<0.16	<0.16
Trichloroethylene	5	0.5	<b>8.8</b>	<b>7.9</b>	<b>173</b>	<b>25.4</b>	<i>0.87j</i>
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<1.2	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<2.4	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.44	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<3.7	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2o**  
**CPZ7 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ7		
			4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<i>0.88j</i>	<0.50	<0.50
Bromobenzene			<0.23	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<0.50
Chlorobenzene			<0.50	<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5	<2.5
Chloromethane	3	3	<0.50	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	4.2	2.9	<b>9.5</b>
trans-1,2-Dichloroethylene	100	20	<0.24	<0.24	3.0
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1	<2.1
Isopropylbenzene			<0.12	<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	5.6	1.3	3.6
Naphthalene	100	10	<2.5	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	3.7	3.7	3.4
Toluene	800	160	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.16
Trichloroethylene	5	0.5	<b>18.1</b>	<b>10.7</b>	<b>27.6</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2p**  
**CPZ8 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ8		
			4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<0.50	<0.50	<0.50
Bromobenzene			<0.23	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<0.50
Chlorobenzene			<0.50	<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5	<2.5
Chloromethane	3	3	<0.50	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	1.2	<0.26	0.70j
trans-1,2-Dichloroethylene	100	20	0.75j	<0.26	0.32j
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1	<2.1
Isopropylbenzene			<0.12	<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.17	<0.17	<0.17
Naphthalene	100	10	<2.5	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>137</b>	<b>29.8</b>	<b>92.4</b>
Toluene	800	160	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.16
Trichloroethylene	5	0.5	<b>26.1</b>	4.6	<b>11.6</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2q**  
**MW2r Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	MW2r		
			4/28/16	7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<0.50	<0.50	<0.50
Bromobenzene			<0.23	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	3.3
Bromoform	4.4	0.44	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<0.50
Chlorobenzene			<0.50	<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50	<b>38.9</b>
2-Chlorotoluene			<0.50	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	100	20	<0.26	<0.26	<0.26
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1	<2.1
Isopropylbenzene			<0.12	<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.17	<0.17	<0.17
Naphthalene	100	10	<2.5	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>5.0</b>	<0.50	<b>12.1</b>
Toluene	800	160	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.16
Trichloroethylene	5	0.5	<0.33	<0.33	<0.33
Trichlorofluoromethane	3,490	698	<0.17	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2r**  
**CPZ9 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ9	
			7/5/17	6/27/18
<b>Detected VOC's (ug/L)</b>				
Benzene	5	0.5	<0.50	<0.50
Bromobenzene			<0.23	<0.23
Bromochloromethane			<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50
Chlorobenzene			<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16
Dibromomethane			<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.26	9.2
trans-1,2-Dichloroethene	100	20	<0.26	13.4
1,2-Dichloropropane	5	0.5	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1
Isopropylbenzene			<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.17	<0.17
Naphthalene	100	10	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50
Styrene	100	10	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25
Tetrachloroethylene	5	0.5	1.9	2.7
Toluene	800	160	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16
Trichloroethylene	5	0.5	0.49j	<b>8.7</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2s**  
**CPZ10 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ10		
			7/5/17	6/27/18	7/13/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<0.50	<0.50	<0.50
Bromobenzene			<0.23	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<0.50
Chlorobenzene			<0.50	<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	0.48j	0.78j	1.2
trans-1,2-Dichloroethene	100	20	<0.26	<0.26	<0.26
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1	<2.1
Isopropylbenzene			<0.12	<0.12	<0.12
p-Isopropyltoluene			<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	<0.17	<0.17	<0.17
Naphthalene	100	10	<2.5	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>12.5</b>	<b>13.7</b>	<b>19.0</b>
Toluene	800	160	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.16
Trichloroethylene	5	0.5	<b>14.6</b>	<b>21.4</b>	<b>29.8</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2t**  
**CPZ11 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ11		
			7/5/17	6/27/18	7/13/18
<b>Detected VOC's (ug/L)</b>					
Benzene	5	0.5	<i>0.55j</i>	<i>1.0</i>	<i>0.74j</i>
Bromobenzene			<0.23	<0.23	<0.23
Bromochloromethane			<0.34	<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50	<0.50
Chlorobenzene			<0.50	<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16	<0.16
Dibromomethane			<0.43	<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	1.2	3.8	2.3
trans-1,2-Dichloroethene	100	20	<0.26	0.72j	0.52j
1,2-Dichloropropane	5	0.5	<0.23	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1	<2.1
Isopropylbenzene			0.30j	<0.14	<0.14
p-Isopropyltoluene			<0.50	<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23	<0.23
Methyl t-Butyl Ether	60	12	3.1	5.7	3.5
Naphthalene	100	10	<2.5	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50	<0.50
Styrene	100	10	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25	<0.25
Tetrachloroethylene	5	0.5	<b>14.3</b>	<b>20.4</b>	<b>11.2</b>
Toluene	800	160	<0.50	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16	<0.16
Trichloroethylene	5	0.5	<b>17.8</b>	<b>28.7</b>	<b>16.8</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit



**Table 2u**  
**CPZ12 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ12	
			6/27/18	7/13/18
<b>Detected VOC's (ug/L)</b>				
Benzene	5	0.5	<0.50	<0.50
Bromobenzene			<0.23	<0.23
Bromochloromethane			<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50
Chlorobenzene			<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16
Dibromomethane			<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<i>40.3</i>	<i>30.0</i>
trans-1,2-Dichloroethene	100	20	<i>63.4</i>	<i>44.9</i>
1,2-Dichloropropane	5	0.5	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1
Isopropylbenzene			<0.14	<0.14
p-Isopropyltoluene			<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23
Methyl t-Butyl Ether	60	12	5.7	5.7
Naphthalene	100	10	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50
Styrene	100	10	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25
Tetrachloroethylene	5	0.5	<0.50	<0.50
Toluene	800	160	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16
Trichloroethylene	5	0.5	<b>63.6</b>	<b>46.6</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2v**  
**CPZ13 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ13	
			6/27/18	7/13/18
<b>Detected VOC's (ug/L)</b>				
Benzene	5	0.5	0.68j	0.55j
Bromobenzene			<0.23	<0.23
Bromochloromethane			<0.34	<0.34
Bromodichloromethane	0.6	0.06	<0.50	<0.50
Bromoform	4.4	0.44	<0.50	<0.50
Bromomethane	10	1	<2.4	<2.4
n-Butylbenzene			<0.50	<0.50
sec-Butylbenzene			<2.2	<2.2
tert-Butylbenzene			<0.18	<0.18
Carbon Tetrachloride	5	0.5	<0.50	<0.50
Chlorobenzene			<0.50	<0.50
Chloroethane	400	80	<0.37	<0.37
Chloroform	6	0.6	<2.5	<2.5
Chloromethane	30	3	<0.50	<0.50
2-Chlorotoluene			<0.50	<0.50
4-Chlorotoluene			<0.21	<0.21
1,2-Dibromo-3-chloropropane	0.2	0.02	<2.2	<2.2
Dibromochloromethane	60	6	<0.32	<0.32
1,2-Dibromoethane	0.05	0.005	<0.16	<0.16
Dibromomethane			<0.43	<0.43
1,2-Dichlorobenzene	600	60	<0.50	<0.50
1,3-Dichlorobenzene	600	120	<0.50	<0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.50
Dichlorodifluoromethane	1,000	200	<0.16	<0.16
1,1-Dichloroethane	850	85	<0.18	<0.18
1,2-Dichloroethane	5	0.5	<0.18	<0.18
1,1-Dichloroethene	7	0.7	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	48.7	34.1
trans-1,2-Dichloroethene	100	20	73.3	51.1
1,2-Dichloropropane	5	0.5	<0.23	<0.23
1,3-Dichloropropane			<0.50	<0.50
2,2-Dichloropropane			<0.48	<0.48
1,1-Dichloropropene			<0.44	<0.44
cis-1,3-Dichloropropene	0.4	0.04	<0.50	<0.50
trans-1,3-Dichloropropene	0.4	0.04	<0.23	<0.23
Diisopropyl ether			<0.50	<0.50
Ethylbenzene	700	140	<0.50	<0.50
Hexachloro-1,3-butadiene			<2.1	<2.1
Isopropylbenzene			<0.14	0.30j
p-Isopropyltoluene			<0.50	<0.50
Methylene Chloride	5	0.5	<0.23	<0.23
Methyl t-Butyl Ether	60	12	0.81j	0.76j
Naphthalene	100	10	<2.5	<2.5
n-Propylbenzene			<0.50	<0.50
Styrene	100	10	<0.50	<0.50
1,1,1,2-Tetrachloroethane	70	7	<0.18	<0.18
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.25	<0.25
Tetrachloroethylene	5	0.5	<0.50	<b>14.4</b>
Toluene	800	160	<0.50	<0.50
1,2,3-Trichlorobenzene			<2.1	<2.1
1,2,4-Trichlorobenzene	70	14	<2.2	<2.2
1,1,1-Trichloroethane	200	40	<0.50	<0.50
1,1,2-Trichloroethane	5	0.5	<0.16	<0.16
Trichloroethylene	5	0.5	<b>43.6</b>	<b>40.5</b>
Trichlorofluoromethane	3,490	698	<0.17	<0.17
1,2,3-Trichloropropane	60	12	<0.50	<0.50
Total Trimethylbenzenes	480	96	<1	<1
Vinyl Chloride	0.2	0.02	<0.18	<0.18
Total Xylenes	2,000	400	<1.5	<1.5

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 2w**  
**CPZ13 Groundwater Analytical Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

PARAMETER	ES	PAL	CPZ14	
			6/27/18	7/13/18
<b>Detected VOC's (ug/L)</b>				
Benzene	5	0.5	<1.2	<1.0
Bromobenzene			<0.58	<0.46
Bromochloromethane			<0.85	<0.68
Bromodichloromethane	0.6	0.06	<1.2	<1.0
Bromoform	4.4	0.44	<1.2	<1.0
Bromomethane	10	1	<6.1	<4.9
n-Butylbenzene			<1.2	<1.0
sec-Butylbenzene			<5.5	<4.4
tert-Butylbenzene			<0.45	<0.36
Carbon Tetrachloride	5	0.5	<1.2	<1.0
Chlorobenzene			<1.2	<1.0
Chloroethane	400	80	<0.94	<0.75
Chloroform	6	0.6	<6.2	<5.0
Chloromethane	30	3	<1.2	<1.0
2-Chlorotoluene			<1.2	<1.0
4-Chlorotoluene			<0.53	<0.43
1,2-Dibromo-3-chloropropane	0.2	0.02	<5.4	<4.3
Dibromochloromethane	60	6	<1.2	<1.0
1,2-Dibromoethane	0.05	0.005	<0.44	<0.36
Dibromomethane			<1.1	<0.85
1,2-Dichlorobenzene	600	60	<1.2	<1.0
1,3-Dichlorobenzene	600	120	<1.2	<1.0
1,4-Dichlorobenzene	75	15	<1.2	<1.0
Dichlorodifluoromethane	1,000	200	<0.56	<0.45
1,1-Dichloroethane	850	85	<0.60	<0.48
1,2-Dichloroethane	5	0.5	<0.42	<0.34
1,1-Dichloroethene	7	0.7	<1.0	<0.82
cis-1,2-Dichloroethene	70	7	0.75j	1.4j
trans-1,2-Dichloroethene	100	20	0.96j	1.9j
1,2-Dichloropropane	5	0.5	<0.58	<0.14
1,3-Dichloropropane			<1.2	<1.0
2,2-Dichloropropane			<1.2	<0.97
1,1-Dichloropropene			<1.1	<0.88
cis-1,3-Dichloropropene	0.4	0.04	<1.2	<1.0
trans-1,3-Dichloropropene	0.4	0.04	<0.57	<0.46
Diisopropyl ether			<1.2	<1.0
Ethylbenzene	700	140	<1.2	<1.0
Hexachloro-1,3-butadiene			<5.3	<4.2
Isopropylbenzene			<0.36	<0.29
p-Isopropyltoluene			<1.2	<1.0
Methylene Chloride	5	0.5	<0.58	<0.47
Methyl t-Butyl Ether	60	12	<0.44	<0.35
Naphthalene	100	10	<6.2	<5.0
n-Propylbenzene			<1.2	<1.0
Styrene	100	10	<1.2	<1.0
1,1,1,2-Tetrachloroethane	70	7	<0.45	<0.36
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.62	<0.50
Tetrachloroethylene	5	0.5	<b>130</b>	<b>150</b>
Toluene	800	160	<1.2	<1.0
1,2,3-Trichlorobenzene			<5.3	<4.3
1,2,4-Trichlorobenzene	70	14	<5.5	<4.4
1,1,1-Trichloroethane	200	40	<1.2	<1.0
1,1,2-Trichloroethane	5	0.5	<0.49	<0.39
Trichloroethylene	5	0.5	<b>17.5</b>	<b>21.5</b>
Trichlorofluoromethane	3,490	698	<0.46	<0.37
1,2,3-Trichloropropane	60	12	<1.2	<1.0
Total Trimethylbenzenes	480	96	<2.4	<2
Vinyl Chloride	0.2	0.02	<0.44	<0.35
Total Xylenes	2,000	400	<3.7	<3

PAL = Preventative Action Limit

ES = Enforcement Standards

<b>BOLD</b>
<i>Italic</i>

j = Estimated Concentration Between Method Detection Limit and Reporting Limit

**Table 3**  
**Groundwater Level Data**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, WI**

	PZ1	DPRA-PZ1	CPZ1	CPZ2	CPZ3	CPZ4	CPZ4r	CPZ5	CPZ6	PZWR2	PZWR3	MW2r	CZPZ7	CPZ8	CPZ9	CPZ10	CPZ11	CPZ12	CPZ13	CPZ14
Ground Surface Elevation	1027.27	1026.88	1027.15	1027.13	1027.20	1028.01	1028.03	1027.00	1027.31	1027.13	1027.45	1028.03	1027.47	1027.71	1028.20	1028.08	1027.88	1026.12	1026.36	1026.88
Top of Casing Elevation	1026.91	1026.47	1026.75	1026.66	1026.77	1027.53	1027.61	1026.76	1027.03	1026.71	1026.95	1027.56	1027.18	1027.22	1027.68	1027.55	1027.37	1025.73	1025.84	1026.53
Top of Screen Elevation	1001.90	997.72	996.47	996.88	1002.70	1003.16	997.71	991.47	979.98	996.71	996.95	1012.86	997.36	997.41	998.16	1000.48	997.66	996.23	996.06	996.93
Bottom of Screen Elevation	996.90	992.72	991.47	991.88	997.70	998.16	992.71	986.47	974.98	991.71	991.95	1002.86	992.36	992.41	993.16	995.48	992.66	991.23	991.06	991.93

Depth to Water (feet)

8/7/2002	14.27	15.14	15.80	14.66	13.98	14.75	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/24/2002	14.48	16.47	17.12	15.85	14.19	14.98	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/9/2003	14.58	15.49	16.13	15.07	14.28	15.05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
2/12/2003	NM	NM	NM	NM	NM	NM	NI	15.83	17.34	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
4/2/2003	15.19	Frozen	16.58	15.46	14.85	15.65	NI	17.03	17.47	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/10/2013	NM	NM	16.40	14.89	13.94	Abandoned	NI	16.71	17.16	16.02	14.11	NI	NI	NI	NI	NI	NI	NI	NI	NI
3/5/2014	NM	NM	16.46	14.21	14.93	Abandoned	NI	16.81	17.38	16.17	14.52	NI	NI	NI	NI	NI	NI	NI	NI	NI
4/28/2016	13.64	NM	15.11	14.30	13.32	Abandoned	14.82	15.48	16.02	15.52	13.52	14.14	15.95	15.68	NI	NI	NI	NI	NI	NI
7/5/2017	13.28	NM	15.44	14.26	12.99	Abandoned	15.45	15.68	16.76	14.79	13.19	13.77	16.13	15.02	17.15	16.72	16.72	NI	NI	NI
6/27/2018	13.44	NM	15.55	14.07	13.16	Abandoned	15.09	16.13	15.91	14.44	16.06	13.94	16.06	16.17	17.20	16.71	16.74	15.06	15.02	16.86
7/13/2018	NM	NM	NM	NM	NM	Abandoned	14.90	NM	NM	NM	NM	NM	NM	NM	17.36	16.89	16.89	15.23	15.16	17.04

Groundwater Elevation

8/7/2002	1012.64	1011.33	1010.95	1012.00	1012.79	1012.78	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/24/2002	1012.43	1010.00	1009.63	1010.81	1012.58	1012.55	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/9/2003	1012.33	1010.98	1010.62	1011.59	1012.49	1012.48	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
2/12/2003	NM	NM	NM	NM	NM	NM	NI	1010.93	1009.69	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
4/2/2003	1011.72	Frozen	1010.17	1011.20	1011.92	1011.88	NI	1009.73	1009.56	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
9/10/2013	NM	NM	1010.35	1011.77	1012.83	Abandoned	NI	1010.05	1009.87	1010.69	1012.84	NI	NI	NI	NI	NI	NI	NI	NI	NI
3/5/2014	NM	NM	1010.29	1012.45	1011.84	Abandoned	NI	1009.95	1009.65	1010.54	1012.43	NI	NI	NI	NI	NI	NI	NI	NI	NI
4/28/2016	1013.27	NM	1011.64	1012.36	1013.45	Abandoned	1012.79	1011.28	1011.01	1011.19	1013.43	1013.42	1011.23	1011.54	NI	NI	NI	NI	NI	NI
7/5/2017	1013.63	NM	1011.31	1012.40	1013.78	Abandoned	1012.16	1011.08	1010.27	1011.92	1013.76	1013.79	1011.05	1012.20	1010.53	1010.83	1010.65	NI	NI	NI
6/27/2018	1013.47	NM	1011.20	1012.59	1013.61	Abandoned	1012.52	1010.63	1011.12	1012.27	1010.89	1013.62	1011.12	1011.05	1010.48	1010.84	1010.63	1010.67	1010.82	1009.67
7/13/2018	NM	NM	NM	NM	NM	Abandoned	1012.71	NM	NM	NM	NM	NM	NM	NM	1010.32	1010.66	1010.48	1010.50	1010.68	1009.49

NM = Not Measured

NI = Not Installed



**Table 4**  
**Sub-Slab Vapor Sampling Results**  
**Former Normington Dry Cleaners**  
**Wisconsin Rapids, Wisconsin**

VOCs (ug/m <sup>3</sup> )	Screening Levels	10/6/14	2/13/15	10/6/14	2/13/15
	Non-Residential	AVP-1		RVP-1	
Acetone	1,400,000	227	20.3	388	19.6
Benzene	160	3.5	1.5	9.1	2.8
2-Butanone (MEK)	220,000	19.9	13.2	5.0	3.9
Chloroform		<1.1	3.8	<0.24	<0.24
Chloromethane		<0.41	<0.41	<0.56	2.0
Cyclohexane	260,000	2.5	2.3	12.0	3.2
1,4-Dichlorobenzene	110	4.3	<0.42	13.8	0.95j
Dichlorodifluoromethane	4,400	65.9	5.2	4.6	1.9
Ethyl acetate		<0.27	<0.27	<0.17	1.0
Ethylbenzene	490	8.7	4.5	10.5	3.0
4-Ethyltoluene	NS	5.7	5.4	6.5	2.8
n-Heptane	NS	8.9	1.8j	10.4	2.4j
n-Hexane	3,100	2.9	5.0	18.3	5.7
2-Hexanone	1,300	<2.4	3.3	1.5	1.8
Methylene Chloride		<7.5	11.7	<0.31	5.7
4-Methyl-2-pentanone (MIBK)	130,000	5.5	1.9j	<1.5	1.4j
Propylene	130,000	<2.5	0.91	12.5	<0.15
Styrene		<0.29	3.2j	<0.18	<0.18
Tetrachloroethene	1,800	640	406	15.8	78.2
Tetrahydrofuran	88,000	<1.7	<0.29	3.6	<0.19
Toluene	220,000	138	20.1	301	15.5
Trichloroethene	88	3.2	2.1j	<1.0	<0.24
1,2,4-Trimethylbenzene	31,000	16.0	12.2	19.3	5.6
1,3,5-Trimethylbenzene	NS	5.0	4.1	5.3	2.2
Vinyl Chloride	280	<0.75	<0.20	<0.48	<0.12
m&p-Xylene	4,400	34.9	15.4	41.7	9.2
o-Xylene	4,400	11.8	7.0	14.1	3.9

NS - No Standard

NA- Not Analyzed

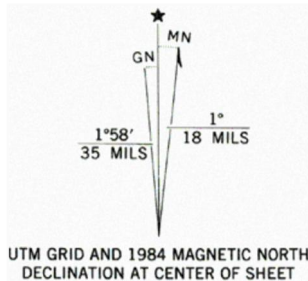
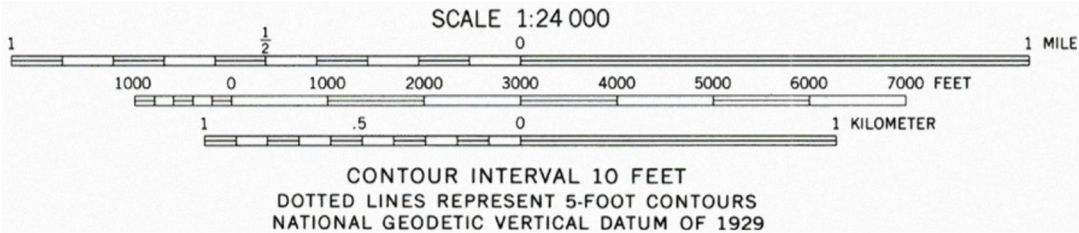
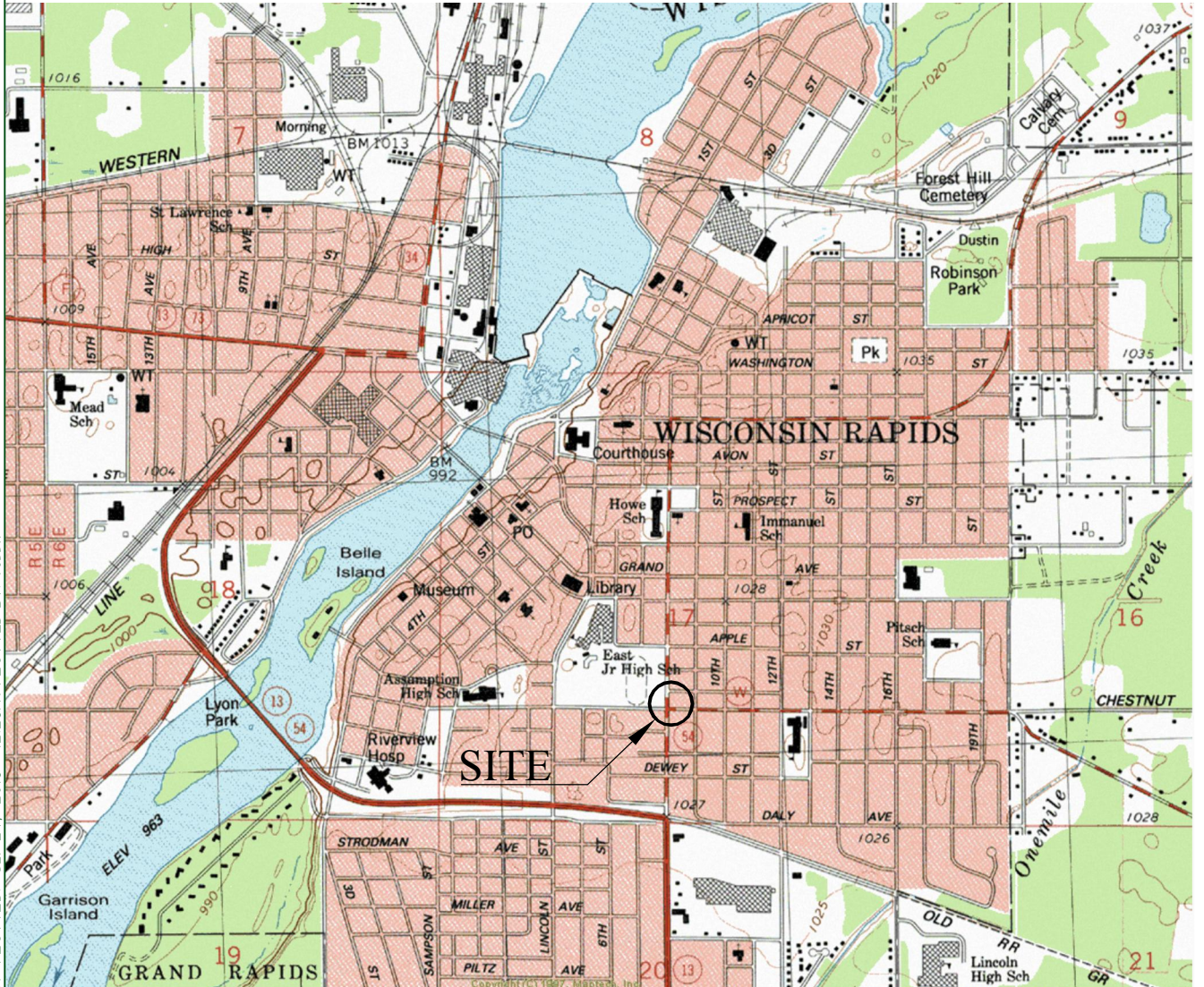
**Exceeds Residential Screening Level**

AVP-1 = Sub-slab vapor port at Allied Health building (former Normington Cleaners)

RVP-1 = Sub-slab vapor port at R&R Transmission building (former Colonial Standard)

j - Estimated concentration at or above the Limit of Detection and below the Limit of Quantification

DRAWING FILE: P:\1900-1999\1933A-NORMINGTON\DWG\1933-VICIN.DWG LAYOUT: VICN PLOTTED: SEP 24, 2013 - 12:23PM PLOTTED BY: TODDY



**WISCONSIN RAPIDS NORTH, WIS.**  
 NE/4 WISCONSIN RAPIDS 15' QUADRANGLE  
 44089-D7-TF-024

1984

REI Engineering, INC.

FORMER NORMINGTON DRY CLEANERS  
 821 CHESTNUT STREET  
 WISCONSIN RAPIDS, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
1933	TAW	9/23/2013

DRAWING FILE: P:\1900-1999\1933A-NORMINGTON\DWG\1933-Proposed PZs - 082318.dwg LAYOUT: GW PLOTTED: AUG 23, 2018 - 2:21PM PLOTTED BY: MATTM



**LEGEND**

0 50 100  
SCALE: 1" = 100'

- PROPOSED PIEZOMETER LOCATION
- GROUNDWATER CONTAMINATION >ES-CVOCs
- SUB SLAB VAPOR PORS
- GROUNDWATER PROBE SAMPLE
- + CVOC SAMPLE LOCATION
- HAND AUGERED SOIL BORING
- CATCH BASIN
- PIEZOMETER
- MONITORING WELL (ABANDONED)
- GEOPROBE SOIL BORING
- SOIL BORING
- SANITARY MANHOLE
- SIGN
- GEOPROBE SOIL BORING (FORMER NORMINGTONS)
- GEOPROBE SOIL BORING (ROBERT E. LEE)
- PIEZOMETER (DRPA CONSULTANTS)
- PIEZOMETER (ROBERT E. LEE)
- MONITORING WELL (DRPA CONSULTANTS - ABANDONED)
- MONITORING WELL (ROBERT E. LEE)
- FORMER UST LOCATIONS
- UNDERGROUND ELECTRIC
- GAS LINE
- TELEPHONE LINE
- APPROXIMATE AREA OF BASEMENT
- FENCE

**REI**  
CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING

FORMER NORMINGTON DRY CLEANERS  
821 CHESTNUT STREET  
WISCONSIN RAPIDS, WISCONSIN

FIGURE 2 : PROPOSED ADDITIONAL PIEZOMETER LOCATIONS

PROJECT No. 1933	DRAWN BY: MCM	DATE: 8/23/2018
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REI Engineering, INC.

Figure 3a  
CVOC Concentration vs. Groundwater Elevation and Time at PZWR2

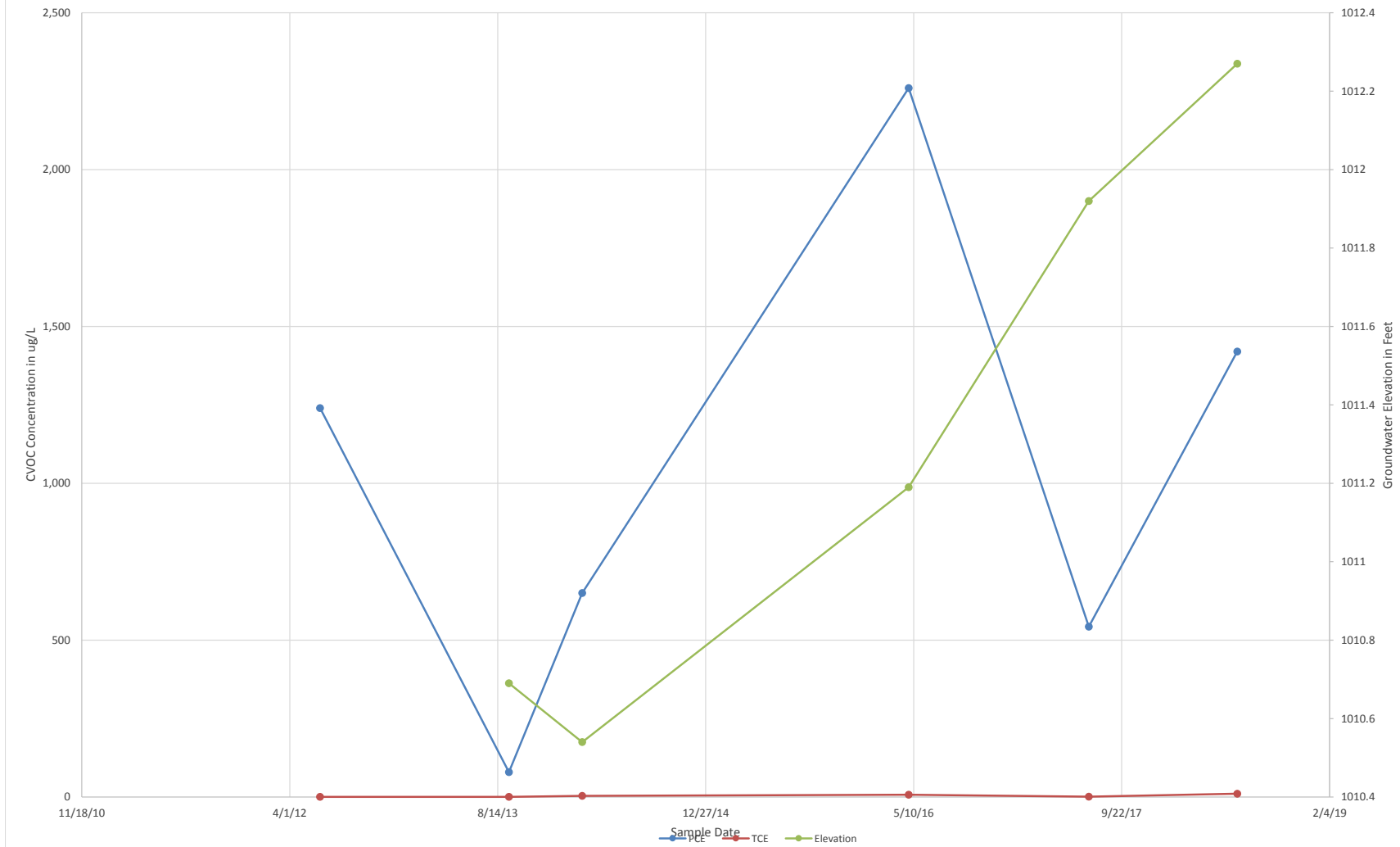
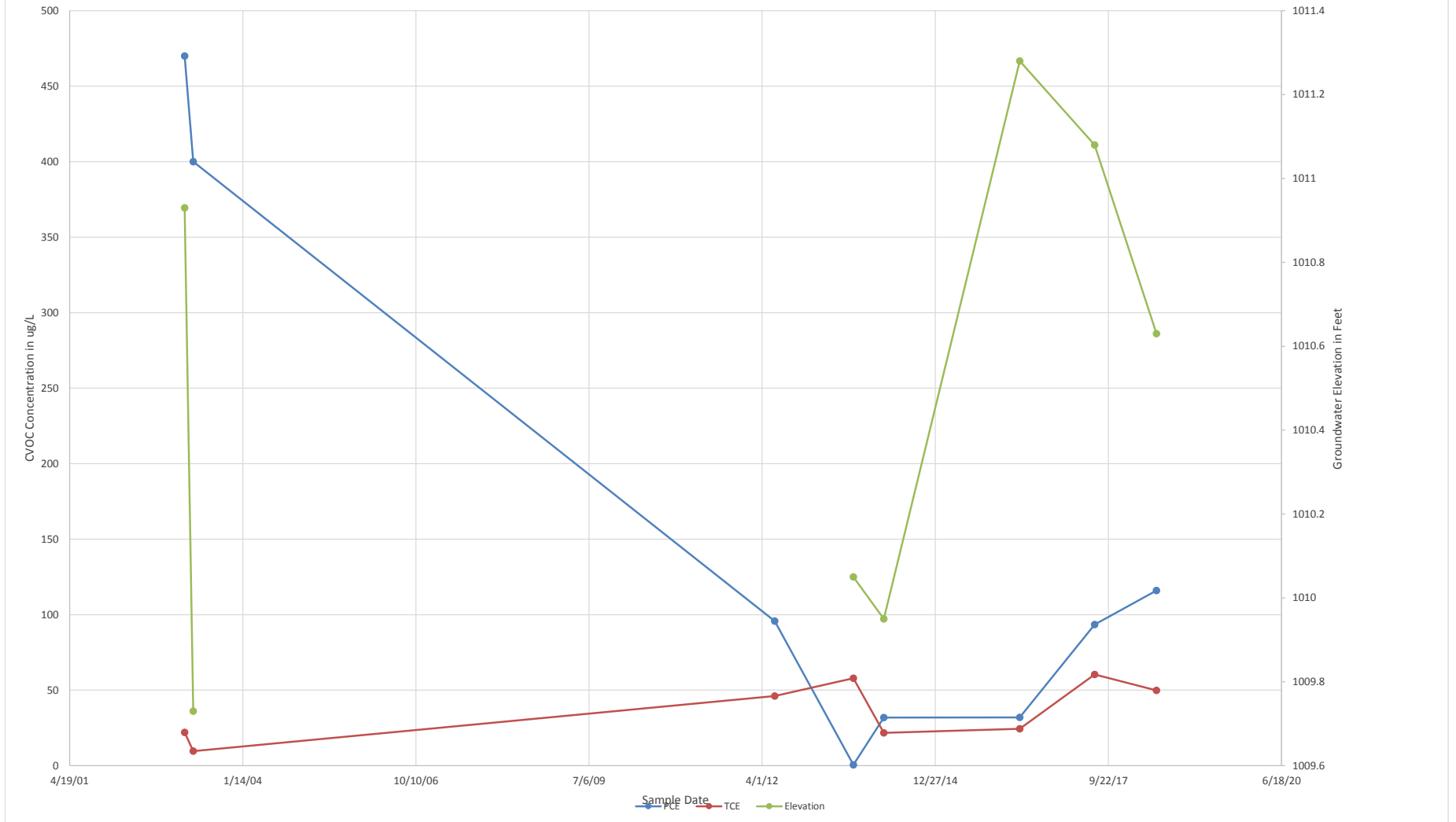




Figure 3b  
CVOC Concentration vs. Groundwater Elevation and Time at CPZ5



## **APPENDIX A**

# **SOIL BORING LOGS, WELL CONSTRUCTION AND DEVELOPMENT FORMS**



Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility/Project Name Former Normington Dry Cleaners License/Permit/Monitoring Number BRRTS #02-72-257528 Boring Number CPZ12

Boring Drilled By: Name of crew chief (first, last) and Firm Darrin - Geiss Soil & Samples Date Drilling Started 6/21/2018 Date Drilling Completed 6/21/2018 Drilling Method 4.25" ID HSA


WI Unique Well No. DNR Well ID No. Common Well Name CPZ12 Final Static Water Level Surface Elevation 0 Borehole Diameter 8"

Local Grid Origin  (estimated)  or Boring Location  CPZ12 State Plane Lat Long Local Grid Location N  E  S  W

Facility ID County Wood County Code 72 Civil Town/City/or Village Wisconsin Rapids

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Length Att. & Recovered (in)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
			1	Blind Drill to 35'										
			2											
			3											
			4											
			5											
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			31											
			32											
			33											
			34											
			35											
			36											
				End of Boring, PZ set at 35'										

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


Signature  Firm REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, 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.

Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility/Project Name Former Normington Dry Cleaners		License/Permit/Monitoring Number BRRTS #02-72-257528		Boring Number CPZ13	
Boring Drilled By: Name of crew chief (first, last) and Firm Darrin - Geiss Soil & Samples			Date Drilling Started 6/21/2018	Date Drilling Completed 6/21/2018	Drilling Method 4.25" ID HSA
WI Unique Well No.	DNR Well ID No.	Common Well Name CPZ12	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> CPZ13 State Plane			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Wood	County Code 72	Civil Town/City/or Village Wisconsin Rapids	

'Z13

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Length Att. & Recovered (in)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
			1	Blind Drill to 35'	SP									
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											
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			29											
			30											
			31											
			32											
			33											
			34											
			35											
			36											
End of Boring, PZ set at 35'														

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

Signature  Firm REI Engineering, Inc.  
4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, 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.


Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Redevelopment  Other

Facility/Project Name Former Normington Dry Cleaners		License/Permit/Monitoring Number BRRTS #02-72-257528		Boring Number CPZ14	
Boring Drilled By: Name of crew chief (first, last) and Firm Darrin - Geiss Soil & Samples			Date Drilling Started 6/21/2018	Date Drilling Completed 6/21/2018	Drilling Method 4.25" ID HSA
WI Unique Well No.	DNR Well ID No.	Common Well Name CPZ12	Final Static Water Level	Surface Elevation 0	Borehole Diameter 8"
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> CPZ14			Lat	Local Grid Location N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/>	
Facility ID		County Wood	County Code 72	Civil Town/City/or Village Wisconsin Rapids	

'214

Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties					RQD/ Comments
Number	Type								Length Att. & Recovered (in)	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
			1	Blind Drill to 35'										
			2											
			3											
			4											
			5											
			6											
			7											
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			29											
			30											
			31											
			32											
			33											
			34											
			35											
			36											
End of Boring, PZ set at 35'					SP									
					SC									

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

Signature  Firm REI Engineering, Inc.  
4080 North 20th Avenue; Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, 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.

Route To Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other

<b>Facility/Project Name</b> Normington Dry Cleaners	<b>Local Grid Location of Well</b> ____ Feet S. ____ Feet W. ____ Feet N. ____ Feet E.	<b>Well Name</b> CPZ12
<b>Facility License Permit or Monitoring Number</b> BRRTS #03-72-543059	<b>Grid Origin Location</b>	<b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____
<b>Type of Well</b> Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 2	<b>Section Location of Waste/Source</b> ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N.; R. ____ <input type="checkbox"/> E <input type="checkbox"/> W	<b>Date Well Installed</b> 6/21/18
<b>Distance Well Is From Waste/Source Boundary</b> Ft. _____	<b>Location of Well Relative to Waste/Source</b> u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	<b>Well Installed By (Person's Name and Firm)</b> Darrin Prentice - Geiss Soil and Samples
<b>Is Well A Point of Enforcement Std. Application</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation 1026.12 ft. MSL  
 B. Well casing, top elevation 1025.73 ft. MSL  
 C. Land surface elevation 1026.12 ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1026.00 ft.

12. USCS Classification of soil near screen:

GP <input type="checkbox"/>	GM <input type="checkbox"/>	GC <input type="checkbox"/>	GW <input type="checkbox"/>	SW <input type="checkbox"/>	SP <input type="checkbox"/>
SM <input type="checkbox"/>	SC <input type="checkbox"/>	ML <input type="checkbox"/>	MH <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	CH <input type="checkbox"/>
Bedrock <input type="checkbox"/>					

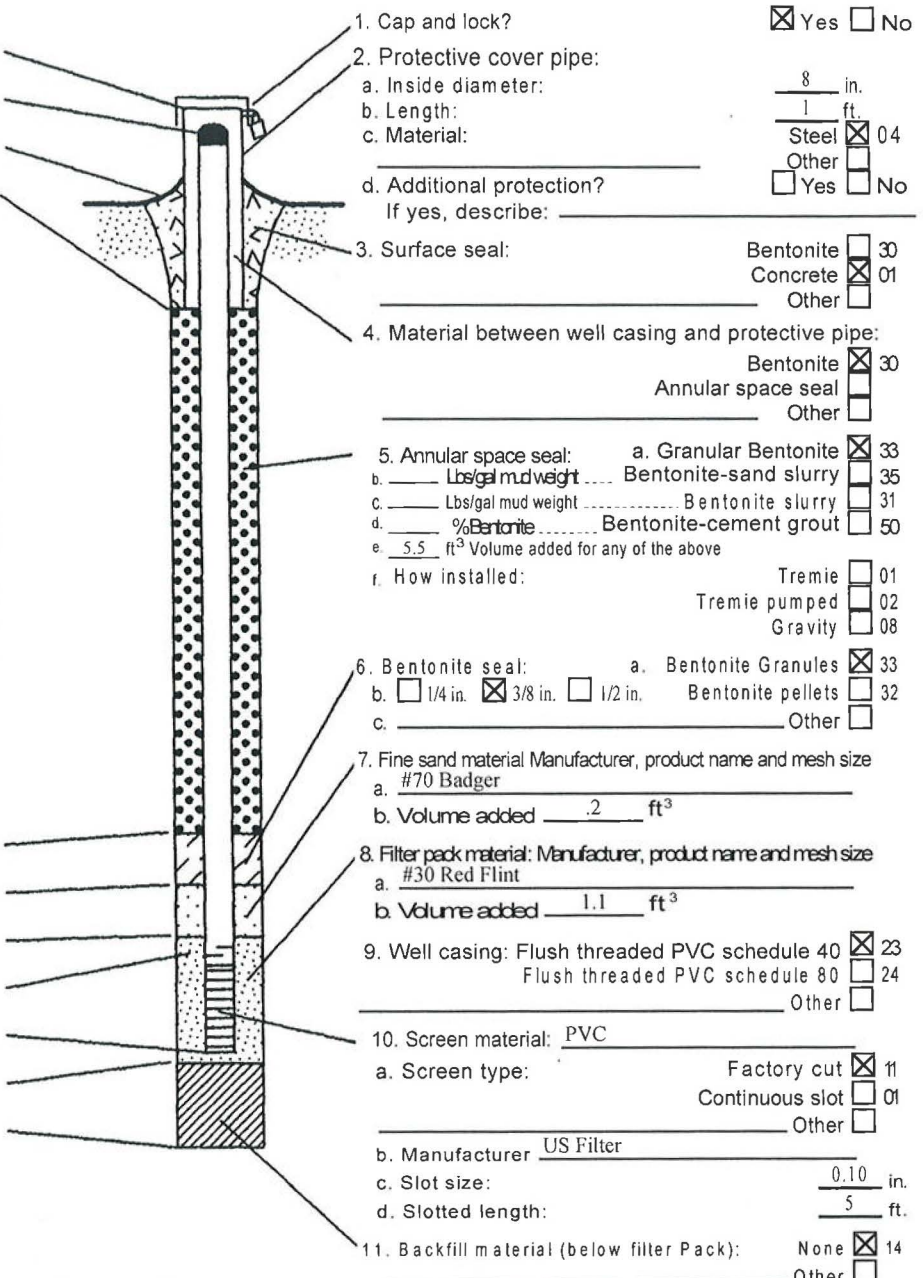
13. Sieve analysis attached?  Yes  No

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 \_\_\_\_\_

17. Source of water (attach analysis):  
 \_\_\_\_\_



E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1025.5 ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 998.23 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 997.23 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 996.23 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 991.23 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 990.75 ft.  
 K. Borehole, bottom \_\_\_\_\_ ft. MSL or 990.75 ft.  
 L. Borehole, diameter 8.25 in.  
 M. O.D. well casing 2.25 in.  
 N. I.D. well casing 2.0 in.

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

Signature [Signature] Firm REI Engineering, Inc.  
 4080 N. 20th Ave.  
 Wausau, WI 54407

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other

Facility/Project Name Normington Dry Cleaners	Local Grid Location of Well ____ Feet S. ____ Feet W. ____ Feet N. ____ Feet E.	Well Name CPZ13
Facility License Permit or Monitoring Number BRRTS #03-72-543059	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> ft. Piezometer <input checked="" type="checkbox"/> 2	Section Location of Waste/Source ____ E. <input type="checkbox"/> W. <input type="checkbox"/>	Date Well Installed 6/21/18
Distance Well Is From Waste/Source Boundary Ft.	1/4 of ____ 1/4 of Sec. ____ T. ____ N.; R. ____	Well Installed By (Person's Name and Firm) Darrin Prentice - Geiss Soil and Samples
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 1026.36 ft. MSL  
B. Well casing, top elevation 1025.84 ft. MSL  
C. Land surface elevation 1026.36 ft. MSL  
D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1025.25 ft.

12. USCS Classification of soil near screen:

GP <input type="checkbox"/>	GM <input type="checkbox"/>	GC <input type="checkbox"/>	GW <input type="checkbox"/>	SW <input type="checkbox"/>	SP <input type="checkbox"/>
SM <input type="checkbox"/>	SC <input type="checkbox"/>	ML <input type="checkbox"/>	MH <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	CH <input type="checkbox"/>

Bedrock

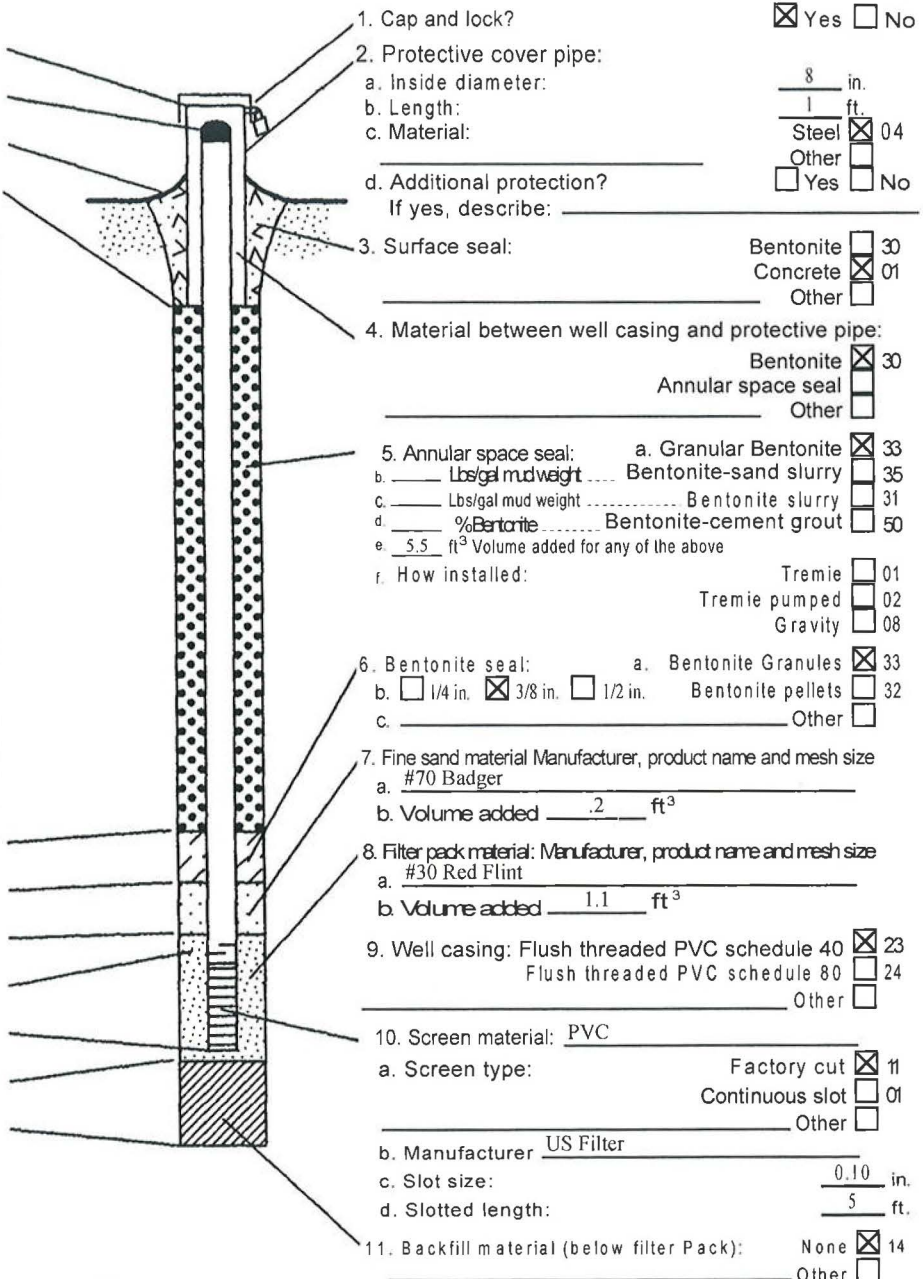
13. Sieve analysis attached?  Yes  No

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 \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_



E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1025.25 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 998.06 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 997.06 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 996.06 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 991.06 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 990.50 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 990.50 ft.  
L. Borehole, diameter 8.25 in.  
M. O.D. well casing 2.25 in.  
N. I.D. well casing 2.0 in.

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

Signature: [Signature] Firm: REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other

Facility/Project Name Normington Dry Cleaners	Local Grid Location of Well ____ Feet S. ____ Feet W. ____ Feet N. ____ Feet E.	Well Name CPZ14
Facility License Permit or Monitoring Number BRRTS #03-72-543059	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	Section Location of Waste/Source ____ E <input type="checkbox"/> W <input type="checkbox"/>	Date Well Installed 6/21/18
Distance Well Is From Waste/Source Boundary Ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) Darrin Prentice - Geiss Soil and Samples
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation 1026.88 ft. MSL  
 B. Well casing, top elevation 1026.53 ft. MSL  
 C. Land surface elevation 1026.88 ft. MSL  
 D. Surface seal, bottom \_\_\_\_\_ ft. MSL or 1026.25 ft.

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

13. Sieve analysis attached?  Yes  No

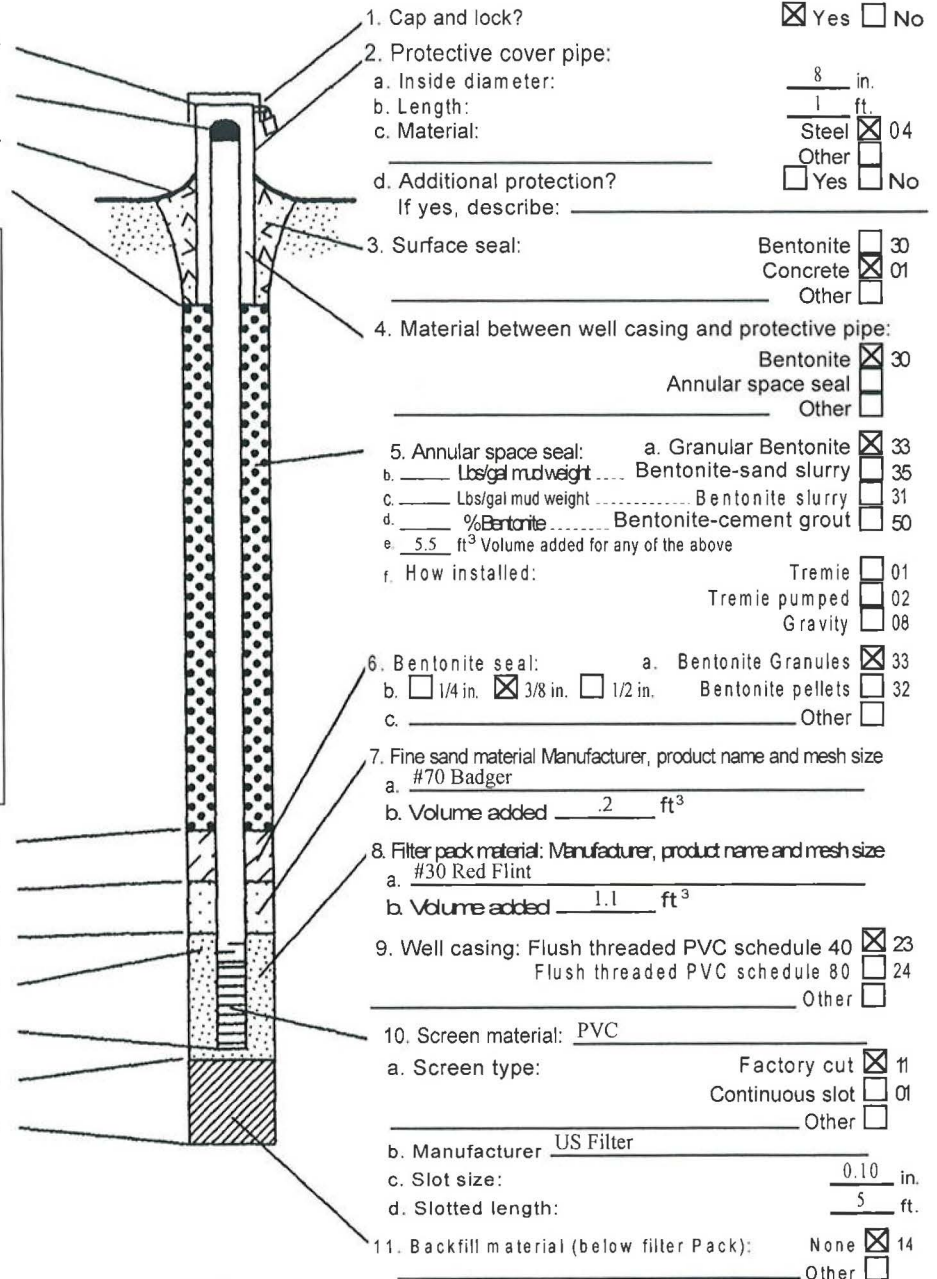
14. Drilling method used  
 Rotary  50  
 Hollow Stem Auger  41  
 Other

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

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis):  
 \_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1026.25 ft.  
 F. Fine sand, top \_\_\_\_\_ ft. MSL or 998.93 ft.  
 G. Filter pack, top \_\_\_\_\_ ft. MSL or 997.93 ft.  
 H. Screen joint, top \_\_\_\_\_ ft. MSL or 996.93 ft.  
 I. Well bottom \_\_\_\_\_ ft. MSL or 991.93 ft.  
 J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 991.5 ft.  
 K. Borehole, bottom \_\_\_\_\_ ft. MSL or 991.5 ft.  
 L. Borehole, diameter 8.25 in.  
 M. O.D. well casing 2.25 in.  
 N. I.D. well casing 2.0 in.



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

Signature R SA Firm REI Engineering, Inc.  
 4080 N. 20th Ave.  
 Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.



Route To: Solid Waste  Haz. Waste  Wastewater   
 Env. Response & Repair  Underground Tanks  Other

Facility/Project Name Normington Dry Cleaners	County Name Wood	Well Name CPZ13	
Facility Licence, Permit or Monitoring Number BRRTS #02-72-257828	County Code 72	Wis. Unique Well Number	DNR Well 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 20 min.

4. Depth of well (from top of Casing) 34.78 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 5.3 gal.

7. Volume of water removed from well 35 gal.

8. Volume of water added (If any) gal.

9. Source of water added \_\_\_\_\_

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. 15.02 ft.	15.86 ft.
Data mm/dd/yy	b. 6/27/18	6/27/18
Time	c. 8:27 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.	8:48 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.
12. Sediment in well bottom	0.4 inches	0 inches
13. Water clarity (Describe)	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Jed Kosch

Firm: REI Engineering, Inc.  
 4020 N 20th Ave.  
 Wausau, WI 54401

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

Signature: 

Print Initials: J K

Firm: REI Engineering, Inc.

Route To: Solid Waste  Haz. Waste  Wastewater   
 Env. Response & Repair  Underground Tanks  Other

Facility/Project Name Normington Dry Cleaners	County Name Wood	Well Name CPZ14	
Facility Licence, Permit or Monitoring Number BRRTS #02-72-257828	County Code 72	Wis. Unique Well Number	DNR Well 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 21 min.

4. Depth of well (from top of Casing) 34.6 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 5.3 gal.

7. Volume of water removed from well 35 gal.

8. Volume of water added (If any) gal.

9. Source of water added \_\_\_\_\_

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. 16.86 ft.	17.68 ft.
Data mm/dd/yy	b. 6/27/18	6/27/18
Time	c. 7:46 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	8:17 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.5 inches	0 inches
13. Water clarity (Describe)	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Jed Kosch

Firm: REI Engineering, Inc.  
 4020 N 20th Ave.  
 Wausau, WI 54401

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

Signature: \_\_\_\_\_

Print Initials: — — —

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Route To: Solid Waste  Haz. Waste  Wastewater   
 Env. Response & Repair  Underground Tanks  Other

Facility/Project Name Normington Dry Cleaners	County Name Wood	Well Name CPZ12	
Facility Licence, Permit or Monitoring Number BRRTS #02-72-257828	County Code 72	Wis. Unique Well Number	DNR Well 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 25 min.

4. Depth of well (from top of Casing) 34.5 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 5.3 gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (If any) gal.

9. Source of water added \_\_\_\_\_

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. 15.06 ft.	22.06 ft.
Data mm/dd/yy	b. 6/27/18	6/27/18
Time	c. 9:01 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.	9:25 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.
12. Sediment in well bottom	0 inches	0 inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: Jed Kosch

Firm: REI Engineering, Inc.  
 4020 N 20th Ave.  
 Wausau, WI 54401

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

Signature: 

Print Initials: JAK

Firm: REI Engineering, Inc.

## **APPENDIX B**

### **DISPOSAL DOCUMENTATION**



**LINCOLN COUNTY LANDFILL 715-536-9636**

Site: N4750 Landfill Lane, Merrill, WI 54452

Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

**OPERATING HOURS:**

Monday-Friday

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 6/26/2018  
Time In: 10:23 AM

TICKET #: 248176  
Time Out: 10:31 AM

Vehicle #:

BILL TO: R.E.I.  
HAULER : R.E.I.

JOB : 18 - 33 G - Former Normington Dry Cleaners, WI Rapid

PO# : REI job 1933

Garbage (GAR1) 2.19 tn

Gross: 16440

Tare: 12060

Net Weight: 4380

Scale Notes:

Charge Transaction

FORMER NORMINGTON DRY CLEANERS

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_

Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

Date: 8-8-07

**SPECIAL DISCHARGE FORM**  
GROUNDWATER CLEANUP PROJECTS

This form is intended to document the discharge of contaminated groundwater or process waters into the Wausau Wastewater Treatment Facility. Sewerage Utility billing for this discharge will be directly to the party listed below.

Source of Water: Monitoring Well purge water  
Up to 500 gallons, no free product, no strong or volatile odors

Party Responsible for Utility Charges:

Dave Larsen  
REI Engineering Inc.  
4080 N 20th Ave  
Wausau WI 54401

Approved By: [Signature]  
Wausau Sewerage Utility

T# \_\_\_\_\_  
Date \_\_\_\_\_  
P# \_\_\_\_\_  
Approved By \_\_\_\_\_  
GL# \_\_\_\_\_  
BG# \_\_\_\_\_

**TO BE COMPLETED BY WASTE HAULER**

Name of Waste Hauler: REI Engineering, Inc.  
Disposal date 7-12-18

Approximate quantity of water discharged: 387 gallons

Date of Discharge: 7/12/18

Time of Discharge: \_\_\_\_\_

By submitting this form, the hauler will not be billed for this load. Special Discharge Request has been completed to obtain authorization for this discharge but please notify treatment plant operator if water contains oil, grease, solids, or sediments, has a strong odor or otherwise appears unsuitable for discharge into the treatment plant.

**THIS FORM TO BE SUBMITTED TO SEWERAGE UTILITY BY WASTE HAULER AT TIME OF DISCHARGE**

Phillips Plating - 6134-B - 147 gallons

Tower Standard - 903 - 130 gallons

Normington dry cleaners - 1933-B - 110 gallons

# **ATTACHMENT C**

## **LABORATORY ANALYTICAL REPORTS**



July 10, 2018

Andy Delforge  
REI  
4080 North 20th Avenue  
Wausau, WI 54401

RE: Project: 1933B NORMINGTON  
Pace Project No.: 40171765

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 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,



Brian Basten  
brian.basten@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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



## CERTIFICATIONS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

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### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171765001	CPZ4R	Water	06/27/18 14:50	06/29/18 09:05
40171765002	CPZ5	Water	06/27/18 13:10	06/29/18 09:05
40171765003	CPZ6	Water	06/27/18 11:10	06/29/18 09:05
40171765004	PZWR2	Water	06/27/18 13:40	06/29/18 09:05
40171765005	CPZ7	Water	06/27/18 12:25	06/29/18 09:05
40171765006	CPZ8	Water	06/27/18 12:45	06/29/18 09:05
40171765007	MW-2R	Water	06/27/18 15:15	06/29/18 09:05
40171765008	CPZ9	Water	06/27/18 12:00	06/29/18 09:05
40171765009	CPZ10	Water	06/27/18 11:35	06/29/18 09:05
40171765010	CPZ11	Water	06/27/18 10:45	06/29/18 09:05
40171765011	CPZ12	Water	06/27/18 09:25	06/29/18 09:05
40171765012	CPZ13	Water	06/27/18 08:45	06/29/18 09:05
40171765013	CPZ14	Water	06/27/18 08:15	06/29/18 09:05

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### SAMPLE ANALYTE COUNT

Project: 1933B NORMINGTON  
Pace Project No.: 40171765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171765001	CPZ4R	EPA 8260	HNW	64	PASI-G
40171765002	CPZ5	EPA 8260	HNW	64	PASI-G
40171765003	CPZ6	EPA 8260	HNW	64	PASI-G
40171765004	PZWR2	EPA 8260	HNW	64	PASI-G
40171765005	CPZ7	EPA 8260	HNW	64	PASI-G
40171765006	CPZ8	EPA 8260	HNW	64	PASI-G
40171765007	MW-2R	EPA 8260	HNW	64	PASI-G
40171765008	CPZ9	EPA 8260	HNW	64	PASI-G
40171765009	CPZ10	EPA 8260	HNW	64	PASI-G
40171765010	CPZ11	EPA 8260	HNW	64	PASI-G
40171765011	CPZ12	EPA 8260	HNW	64	PASI-G
40171765012	CPZ13	EPA 8260	HNW	64	PASI-G
40171765013	CPZ14	EPA 8260	HNW	64	PASI-G

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Sample: CPZ4R Lab ID: 40171765001 Collected: 06/27/18 14:50 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 15:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 15:20	74-97-5	
Bromodichloromethane	4.1	ug/L	1.0	0.50	1		07/09/18 15:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 15:20	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 15:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 15:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 15:20	75-00-3	
Chloroform	44.1	ug/L	5.0	2.5	1		07/09/18 15:20	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 15:20	96-12-8	
Dibromochloromethane	0.50J	ug/L	1.0	0.50	1		07/09/18 15:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 15:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 15:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 15:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 15:20	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 15:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 15:20	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 15:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 15:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 15:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 15:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 15:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 15:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 15:20	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 15:20	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 15:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 15:20	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 15:20	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 15:20	630-20-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ4R**      **Lab ID: 40171765001**      Collected: 06/27/18 14:50      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 15:20	79-34-5	
Tetrachloroethene	19.1	ug/L	1.0	0.50	1		07/09/18 15:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 15:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 15:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 15:20	79-00-5	
Trichloroethene	0.47J	ug/L	1.0	0.33	1		07/09/18 15:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 15:20	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 15:20	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 15:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 15:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		07/09/18 15:20	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/09/18 15:20	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/09/18 15:20	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ5**      **Lab ID: 40171765002**      Collected: 06/27/18 13:10      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 16:46	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 16:46	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 16:46	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 16:46	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 16:46	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 16:46	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 16:46	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 16:46	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 16:46	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 16:46	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 16:46	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 16:46	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 16:46	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 16:46	75-35-4	
cis-1,2-Dichloroethene	0.64J	ug/L	1.0	0.26	1		07/09/18 16:46	156-59-2	
trans-1,2-Dichloroethene	0.49J	ug/L	1.0	0.26	1		07/09/18 16:46	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 16:46	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 16:46	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 16:46	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 16:46	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 16:46	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 16:46	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 16:46	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 16:46	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 16:46	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 16:46	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ5**      **Lab ID: 40171765002**      Collected: 06/27/18 13:10      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 16:46	79-34-5	
Tetrachloroethene	116	ug/L	1.0	0.50	1		07/09/18 16:46	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 16:46	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 16:46	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 16:46	79-00-5	
Trichloroethene	49.8	ug/L	1.0	0.33	1		07/09/18 16:46	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 16:46	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 16:46	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 16:46	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 16:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/09/18 16:46	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/09/18 16:46	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/09/18 16:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ6**      **Lab ID: 40171765003**      Collected: 06/27/18 11:10      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:07	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 17:07	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 17:07	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:07	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 17:07	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 17:07	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 17:07	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 17:07	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 17:07	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 17:07	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 17:07	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 17:07	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 17:07	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 17:07	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 17:07	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 17:07	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 17:07	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 17:07	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 17:07	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 17:07	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:07	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:07	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 17:07	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 17:07	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 17:07	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 17:07	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:07	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON  
Pace Project No.: 40171765

**Sample: CPZ6**      **Lab ID: 40171765003**      Collected: 06/27/18 11:10      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 17:07	79-34-5	
Tetrachloroethene	0.95J	ug/L	1.0	0.50	1		07/09/18 17:07	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:07	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:07	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 17:07	79-00-5	
Trichloroethene	0.53J	ug/L	1.0	0.33	1		07/09/18 17:07	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:07	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 17:07	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 17:07	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/09/18 17:07	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		07/09/18 17:07	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/09/18 17:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: PZWR2**      **Lab ID: 40171765004**      Collected: 06/27/18 13:40      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		07/09/18 15:41	108-86-1	
Bromochloromethane	<1.7	ug/L	5.0	1.7	5		07/09/18 15:41	74-97-5	
Bromodichloromethane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	75-27-4	
Bromoform	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	75-25-2	
Bromomethane	<12.2	ug/L	25.0	12.2	5		07/09/18 15:41	74-83-9	
n-Butylbenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	104-51-8	
sec-Butylbenzene	<10.9	ug/L	25.0	10.9	5		07/09/18 15:41	135-98-8	
tert-Butylbenzene	<0.90	ug/L	5.0	0.90	5		07/09/18 15:41	98-06-6	
Carbon tetrachloride	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	56-23-5	
Chlorobenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	108-90-7	
Chloroethane	<1.9	ug/L	5.0	1.9	5		07/09/18 15:41	75-00-3	
Chloroform	26.2	ug/L	25.0	12.5	5		07/09/18 15:41	67-66-3	
Chloromethane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	74-87-3	
2-Chlorotoluene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	95-49-8	
4-Chlorotoluene	<1.1	ug/L	5.0	1.1	5		07/09/18 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	<10.8	ug/L	25.0	10.8	5		07/09/18 15:41	96-12-8	
Dibromochloromethane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.89	ug/L	5.0	0.89	5		07/09/18 15:41	106-93-4	
Dibromomethane	<2.1	ug/L	5.0	2.1	5		07/09/18 15:41	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	95-50-1	
1,3-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	541-73-1	
1,4-Dichlorobenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	106-46-7	
Dichlorodifluoromethane	<1.1	ug/L	5.0	1.1	5		07/09/18 15:41	75-71-8	
1,1-Dichloroethane	<1.2	ug/L	5.0	1.2	5		07/09/18 15:41	75-34-3	
1,2-Dichloroethane	<0.84	ug/L	5.0	0.84	5		07/09/18 15:41	107-06-2	
1,1-Dichloroethene	<2.1	ug/L	5.0	2.1	5		07/09/18 15:41	75-35-4	
cis-1,2-Dichloroethene	<1.3	ug/L	5.0	1.3	5		07/09/18 15:41	156-59-2	
trans-1,2-Dichloroethene	<1.3	ug/L	5.0	1.3	5		07/09/18 15:41	156-60-5	
1,2-Dichloropropane	<1.2	ug/L	5.0	1.2	5		07/09/18 15:41	78-87-5	
1,3-Dichloropropane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	142-28-9	
2,2-Dichloropropane	<2.4	ug/L	5.0	2.4	5		07/09/18 15:41	594-20-7	
1,1-Dichloropropene	<2.2	ug/L	5.0	2.2	5		07/09/18 15:41	563-58-6	
cis-1,3-Dichloropropene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	10061-01-5	
trans-1,3-Dichloropropene	<1.1	ug/L	5.0	1.1	5		07/09/18 15:41	10061-02-6	
Diisopropyl ether	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	108-20-3	
Ethylbenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	100-41-4	
Hexachloro-1,3-butadiene	<10.5	ug/L	25.0	10.5	5		07/09/18 15:41	87-68-3	
Isopropylbenzene (Cumene)	<0.72	ug/L	5.0	0.72	5		07/09/18 15:41	98-82-8	
p-Isopropyltoluene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	99-87-6	
Methylene Chloride	1.3J	ug/L	5.0	1.2	5		07/09/18 15:41	75-09-2	
Methyl-tert-butyl ether	<0.87	ug/L	5.0	0.87	5		07/09/18 15:41	1634-04-4	
Naphthalene	<12.5	ug/L	25.0	12.5	5		07/09/18 15:41	91-20-3	
n-Propylbenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	103-65-1	
Styrene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.90	ug/L	5.0	0.90	5		07/09/18 15:41	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: PZWR2**      **Lab ID: 40171765004**      Collected: 06/27/18 13:40      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.2	ug/L	5.0	1.2	5		07/09/18 15:41	79-34-5	
Tetrachloroethene	1420	ug/L	5.0	2.5	5		07/09/18 15:41	127-18-4	
Toluene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	108-88-3	
1,2,3-Trichlorobenzene	<10.7	ug/L	25.0	10.7	5		07/09/18 15:41	87-61-6	
1,2,4-Trichlorobenzene	<11.0	ug/L	25.0	11.0	5		07/09/18 15:41	120-82-1	
1,1,1-Trichloroethane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	71-55-6	
1,1,2-Trichloroethane	<0.99	ug/L	5.0	0.99	5		07/09/18 15:41	79-00-5	
Trichloroethene	10.6	ug/L	5.0	1.7	5		07/09/18 15:41	79-01-6	
Trichlorofluoromethane	<0.92	ug/L	5.0	0.92	5		07/09/18 15:41	75-69-4	
1,2,3-Trichloropropane	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	96-18-4	
1,2,4-Trimethylbenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	95-63-6	
1,3,5-Trimethylbenzene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	108-67-8	
Vinyl chloride	<0.88	ug/L	5.0	0.88	5		07/09/18 15:41	75-01-4	
m&p-Xylene	<5.0	ug/L	10.0	5.0	5		07/09/18 15:41	179601-23-1	
o-Xylene	<2.5	ug/L	5.0	2.5	5		07/09/18 15:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		5		07/09/18 15:41	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		5		07/09/18 15:41	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		07/09/18 15:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ7**      **Lab ID: 40171765005**      Collected: 06/27/18 12:25      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:28	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 17:28	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 17:28	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:28	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 17:28	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 17:28	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 17:28	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 17:28	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 17:28	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 17:28	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 17:28	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 17:28	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 17:28	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 17:28	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 17:28	75-35-4	
cis-1,2-Dichloroethene	9.5	ug/L	1.0	0.26	1		07/09/18 17:28	156-59-2	
trans-1,2-Dichloroethene	3.0	ug/L	1.0	0.26	1		07/09/18 17:28	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 17:28	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 17:28	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 17:28	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:28	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:28	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 17:28	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 17:28	75-09-2	
Methyl-tert-butyl ether	3.6	ug/L	1.0	0.17	1		07/09/18 17:28	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 17:28	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:28	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ7**      **Lab ID: 40171765005**      Collected: 06/27/18 12:25      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 17:28	79-34-5	
Tetrachloroethene	3.4	ug/L	1.0	0.50	1		07/09/18 17:28	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:28	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:28	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 17:28	79-00-5	
Trichloroethene	27.6	ug/L	1.0	0.33	1		07/09/18 17:28	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:28	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 17:28	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 17:28	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:28	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/09/18 17:28	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/09/18 17:28	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/09/18 17:28	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ8**      **Lab ID: 40171765006**      Collected: 06/27/18 12:45      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:50	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 17:50	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 17:50	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:50	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 17:50	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 17:50	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 17:50	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 17:50	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 17:50	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 17:50	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 17:50	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 17:50	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 17:50	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 17:50	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 17:50	75-35-4	
cis-1,2-Dichloroethene	0.70J	ug/L	1.0	0.26	1		07/09/18 17:50	156-59-2	
trans-1,2-Dichloroethene	0.32J	ug/L	1.0	0.26	1		07/09/18 17:50	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 17:50	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 17:50	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 17:50	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 17:50	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:50	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 17:50	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 17:50	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 17:50	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 17:50	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:50	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ8**      **Lab ID: 40171765006**      Collected: 06/27/18 12:45      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 17:50	79-34-5	
Tetrachloroethene	92.4	ug/L	1.0	0.50	1		07/09/18 17:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 17:50	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 17:50	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 17:50	79-00-5	
Trichloroethene	11.6	ug/L	1.0	0.33	1		07/09/18 17:50	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 17:50	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 17:50	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 17:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 17:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/09/18 17:50	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		07/09/18 17:50	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		07/09/18 17:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: MW-2R**      **Lab ID: 40171765007**      Collected: 06/27/18 15:15      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:11	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 18:11	74-97-5	
Bromodichloromethane	3.3	ug/L	1.0	0.50	1		07/09/18 18:11	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 18:11	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:11	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 18:11	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 18:11	75-00-3	
Chloroform	38.9	ug/L	5.0	2.5	1		07/09/18 18:11	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 18:11	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 18:11	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 18:11	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 18:11	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 18:11	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 18:11	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 18:11	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 18:11	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 18:11	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 18:11	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 18:11	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 18:11	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 18:11	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:11	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:11	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 18:11	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 18:11	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 18:11	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 18:11	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:11	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: MW-2R**      **Lab ID: 40171765007**      Collected: 06/27/18 15:15      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 18:11	79-34-5	
Tetrachloroethene	12.1	ug/L	1.0	0.50	1		07/09/18 18:11	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:11	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:11	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 18:11	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		07/09/18 18:11	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:11	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 18:11	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 18:11	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/09/18 18:11	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/09/18 18:11	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/09/18 18:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ9**      **Lab ID: 40171765008**      Collected: 06/27/18 12:00      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:33	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 18:33	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 18:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:33	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 18:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 18:33	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 18:33	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 18:33	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 18:33	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 18:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 18:33	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 18:33	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 18:33	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 18:33	75-35-4	
cis-1,2-Dichloroethene	9.2	ug/L	1.0	0.26	1		07/09/18 18:33	156-59-2	
trans-1,2-Dichloroethene	13.4	ug/L	1.0	0.26	1		07/09/18 18:33	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 18:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 18:33	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 18:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:33	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:33	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 18:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 18:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 18:33	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 18:33	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:33	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ9**      **Lab ID: 40171765008**      Collected: 06/27/18 12:00      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 18:33	79-34-5	
Tetrachloroethene	2.7	ug/L	1.0	0.50	1		07/09/18 18:33	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 18:33	79-00-5	
Trichloroethene	8.7	ug/L	1.0	0.33	1		07/09/18 18:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 18:33	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 18:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		07/09/18 18:33	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/09/18 18:33	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/09/18 18:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ10**      **Lab ID: 40171765009**      Collected: 06/27/18 11:35      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:54	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 18:54	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 18:54	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:54	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 18:54	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 18:54	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 18:54	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 18:54	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 18:54	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 18:54	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 18:54	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 18:54	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 18:54	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 18:54	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 18:54	75-35-4	
cis-1,2-Dichloroethene	0.78J	ug/L	1.0	0.26	1		07/09/18 18:54	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/09/18 18:54	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 18:54	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 18:54	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 18:54	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 18:54	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:54	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 18:54	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 18:54	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 18:54	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 18:54	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:54	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ10**      **Lab ID: 40171765009**      Collected: 06/27/18 11:35      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 18:54	79-34-5	
Tetrachloroethene	13.7	ug/L	1.0	0.50	1		07/09/18 18:54	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 18:54	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 18:54	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 18:54	79-00-5	
Trichloroethene	21.4	ug/L	1.0	0.33	1		07/09/18 18:54	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 18:54	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 18:54	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 18:54	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 18:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/09/18 18:54	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		07/09/18 18:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/09/18 18:54	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Sample: CPZ11 Lab ID: 40171765010 Collected: 06/27/18 10:45 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	1.0	ug/L	1.0	0.50	1		07/09/18 19:16	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 19:16	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 19:16	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 19:16	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 19:16	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 19:16	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 19:16	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 19:16	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 19:16	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 19:16	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 19:16	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 19:16	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 19:16	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 19:16	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 19:16	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 19:16	75-35-4	
cis-1,2-Dichloroethene	3.8	ug/L	1.0	0.26	1		07/09/18 19:16	156-59-2	
trans-1,2-Dichloroethene	0.72J	ug/L	1.0	0.26	1		07/09/18 19:16	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 19:16	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 19:16	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 19:16	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 19:16	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 19:16	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 19:16	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 19:16	75-09-2	
Methyl-tert-butyl ether	5.7	ug/L	1.0	0.17	1		07/09/18 19:16	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 19:16	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 19:16	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ11**      **Lab ID: 40171765010**      Collected: 06/27/18 10:45      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 19:16	79-34-5	
Tetrachloroethene	20.4	ug/L	1.0	0.50	1		07/09/18 19:16	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 19:16	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 19:16	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 19:16	79-00-5	
Trichloroethene	28.7	ug/L	1.0	0.33	1		07/09/18 19:16	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 19:16	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 19:16	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 19:16	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/09/18 19:16	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		07/09/18 19:16	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/09/18 19:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ12**      **Lab ID: 40171765011**      Collected: 06/27/18 09:25      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/09/18 19:37	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/09/18 19:37	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/09/18 19:37	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 19:37	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/09/18 19:37	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/09/18 19:37	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/09/18 19:37	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/09/18 19:37	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/09/18 19:37	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/09/18 19:37	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/09/18 19:37	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/09/18 19:37	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/09/18 19:37	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/09/18 19:37	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/09/18 19:37	75-35-4	
cis-1,2-Dichloroethene	40.3	ug/L	1.0	0.26	1		07/09/18 19:37	156-59-2	
trans-1,2-Dichloroethene	63.4	ug/L	1.0	0.26	1		07/09/18 19:37	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/09/18 19:37	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/09/18 19:37	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/09/18 19:37	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/09/18 19:37	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/09/18 19:37	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/09/18 19:37	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/09/18 19:37	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/09/18 19:37	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/09/18 19:37	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/09/18 19:37	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ12**      **Lab ID: 40171765011**      Collected: 06/27/18 09:25      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/09/18 19:37	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/09/18 19:37	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/09/18 19:37	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/09/18 19:37	79-00-5	
Trichloroethene	63.6	ug/L	1.0	0.33	1		07/09/18 19:37	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/09/18 19:37	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/09/18 19:37	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/09/18 19:37	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/09/18 19:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/09/18 19:37	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		07/09/18 19:37	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/09/18 19:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Sample: CPZ13 Lab ID: 40171765012 Collected: 06/27/18 08:45 Received: 06/29/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	0.68J	ug/L	1.0	0.50	1		07/10/18 07:23	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/10/18 07:23	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/10/18 07:23	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/10/18 07:23	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/10/18 07:23	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/10/18 07:23	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/10/18 07:23	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/10/18 07:23	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/10/18 07:23	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/10/18 07:23	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/10/18 07:23	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/10/18 07:23	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/10/18 07:23	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/10/18 07:23	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/10/18 07:23	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/10/18 07:23	75-35-4	
cis-1,2-Dichloroethene	48.7	ug/L	1.0	0.26	1		07/10/18 07:23	156-59-2	
trans-1,2-Dichloroethene	73.3	ug/L	1.0	0.26	1		07/10/18 07:23	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/10/18 07:23	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/10/18 07:23	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/10/18 07:23	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/10/18 07:23	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/10/18 07:23	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/10/18 07:23	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/10/18 07:23	75-09-2	
Methyl-tert-butyl ether	0.81J	ug/L	1.0	0.17	1		07/10/18 07:23	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/10/18 07:23	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/10/18 07:23	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ13**      **Lab ID: 40171765012**      Collected: 06/27/18 08:45      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/10/18 07:23	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/10/18 07:23	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/10/18 07:23	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/10/18 07:23	79-00-5	
Trichloroethene	43.6	ug/L	1.0	0.33	1		07/10/18 07:23	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/10/18 07:23	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/10/18 07:23	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/10/18 07:23	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/10/18 07:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		07/10/18 07:23	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		07/10/18 07:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/10/18 07:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ14**      **Lab ID: 40171765013**      Collected: 06/27/18 08:15      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	71-43-2	
Bromobenzene	<0.58	ug/L	2.5	0.58	2.5		07/09/18 16:24	108-86-1	
Bromochloromethane	<0.85	ug/L	2.5	0.85	2.5		07/09/18 16:24	74-97-5	
Bromodichloromethane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	75-27-4	
Bromoform	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	75-25-2	
Bromomethane	<6.1	ug/L	12.5	6.1	2.5		07/09/18 16:24	74-83-9	
n-Butylbenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	104-51-8	
sec-Butylbenzene	<5.5	ug/L	12.5	5.5	2.5		07/09/18 16:24	135-98-8	
tert-Butylbenzene	<0.45	ug/L	2.5	0.45	2.5		07/09/18 16:24	98-06-6	
Carbon tetrachloride	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	56-23-5	
Chlorobenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	108-90-7	
Chloroethane	<0.94	ug/L	2.5	0.94	2.5		07/09/18 16:24	75-00-3	
Chloroform	<6.2	ug/L	12.5	6.2	2.5		07/09/18 16:24	67-66-3	
Chloromethane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	74-87-3	
2-Chlorotoluene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	95-49-8	
4-Chlorotoluene	<0.53	ug/L	2.5	0.53	2.5		07/09/18 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	<5.4	ug/L	12.5	5.4	2.5		07/09/18 16:24	96-12-8	
Dibromochloromethane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/L	2.5	0.44	2.5		07/09/18 16:24	106-93-4	
Dibromomethane	<1.1	ug/L	2.5	1.1	2.5		07/09/18 16:24	74-95-3	
1,2-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	95-50-1	
1,3-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	106-46-7	
Dichlorodifluoromethane	<0.56	ug/L	2.5	0.56	2.5		07/09/18 16:24	75-71-8	
1,1-Dichloroethane	<0.60	ug/L	2.5	0.60	2.5		07/09/18 16:24	75-34-3	
1,2-Dichloroethane	<0.42	ug/L	2.5	0.42	2.5		07/09/18 16:24	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	2.5	1.0	2.5		07/09/18 16:24	75-35-4	
cis-1,2-Dichloroethene	0.75J	ug/L	2.5	0.64	2.5		07/09/18 16:24	156-59-2	
trans-1,2-Dichloroethene	0.96J	ug/L	2.5	0.64	2.5		07/09/18 16:24	156-60-5	
1,2-Dichloropropane	<0.58	ug/L	2.5	0.58	2.5		07/09/18 16:24	78-87-5	
1,3-Dichloropropane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	142-28-9	
2,2-Dichloropropane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	2.5	1.1	2.5		07/09/18 16:24	563-58-6	
cis-1,3-Dichloropropene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	10061-01-5	
trans-1,3-Dichloropropene	<0.57	ug/L	2.5	0.57	2.5		07/09/18 16:24	10061-02-6	
Diisopropyl ether	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	108-20-3	
Ethylbenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	100-41-4	
Hexachloro-1,3-butadiene	<5.3	ug/L	12.5	5.3	2.5		07/09/18 16:24	87-68-3	
Isopropylbenzene (Cumene)	<0.36	ug/L	2.5	0.36	2.5		07/09/18 16:24	98-82-8	
p-Isopropyltoluene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	99-87-6	
Methylene Chloride	<0.58	ug/L	2.5	0.58	2.5		07/09/18 16:24	75-09-2	
Methyl-tert-butyl ether	<0.44	ug/L	2.5	0.44	2.5		07/09/18 16:24	1634-04-4	
Naphthalene	<6.2	ug/L	12.5	6.2	2.5		07/09/18 16:24	91-20-3	
n-Propylbenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	103-65-1	
Styrene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.45	ug/L	2.5	0.45	2.5		07/09/18 16:24	630-20-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

**Sample: CPZ14**      **Lab ID: 40171765013**      Collected: 06/27/18 08:15      Received: 06/29/18 09:05      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.62	ug/L	2.5	0.62	2.5		07/09/18 16:24	79-34-5	
Tetrachloroethene	130	ug/L	2.5	1.2	2.5		07/09/18 16:24	127-18-4	
Toluene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	108-88-3	
1,2,3-Trichlorobenzene	<5.3	ug/L	12.5	5.3	2.5		07/09/18 16:24	87-61-6	
1,2,4-Trichlorobenzene	<5.5	ug/L	12.5	5.5	2.5		07/09/18 16:24	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	71-55-6	
1,1,2-Trichloroethane	<0.49	ug/L	2.5	0.49	2.5		07/09/18 16:24	79-00-5	
Trichloroethene	17.5	ug/L	2.5	0.83	2.5		07/09/18 16:24	79-01-6	
Trichlorofluoromethane	<0.46	ug/L	2.5	0.46	2.5		07/09/18 16:24	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	96-18-4	
1,2,4-Trimethylbenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	95-63-6	
1,3,5-Trimethylbenzene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	108-67-8	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		07/09/18 16:24	75-01-4	
m&p-Xylene	<2.5	ug/L	5.0	2.5	2.5		07/09/18 16:24	179601-23-1	
o-Xylene	<1.2	ug/L	2.5	1.2	2.5		07/09/18 16:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		2.5		07/09/18 16:24	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		2.5		07/09/18 16:24	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2.5		07/09/18 16:24	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40171765

QC Batch: 293361 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40171765001, 40171765002, 40171765003, 40171765004, 40171765005, 40171765006, 40171765007, 40171765008, 40171765009, 40171765010, 40171765011, 40171765012, 40171765013

METHOD BLANK: 1716203 Matrix: Water  
Associated Lab Samples: 40171765001, 40171765002, 40171765003, 40171765004, 40171765005, 40171765006, 40171765007, 40171765008, 40171765009, 40171765010, 40171765011, 40171765012, 40171765013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	07/09/18 13:32	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	07/09/18 13:32	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	07/09/18 13:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	07/09/18 13:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	07/09/18 13:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	07/09/18 13:32	
1,1-Dichloropropene	ug/L	<0.44	1.0	07/09/18 13:32	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	07/09/18 13:32	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	07/09/18 13:32	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	07/09/18 13:32	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/09/18 13:32	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	07/09/18 13:32	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/09/18 13:32	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	07/09/18 13:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/09/18 13:32	
1,2-Dichloropropane	ug/L	<0.23	1.0	07/09/18 13:32	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/09/18 13:32	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	07/09/18 13:32	
1,3-Dichloropropane	ug/L	<0.50	1.0	07/09/18 13:32	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	07/09/18 13:32	
2,2-Dichloropropane	ug/L	<0.48	1.0	07/09/18 13:32	
2-Chlorotoluene	ug/L	<0.50	1.0	07/09/18 13:32	
4-Chlorotoluene	ug/L	<0.21	1.0	07/09/18 13:32	
Benzene	ug/L	<0.50	1.0	07/09/18 13:32	
Bromobenzene	ug/L	<0.23	1.0	07/09/18 13:32	
Bromochloromethane	ug/L	<0.34	1.0	07/09/18 13:32	
Bromodichloromethane	ug/L	<0.50	1.0	07/09/18 13:32	
Bromoform	ug/L	<0.50	1.0	07/09/18 13:32	
Bromomethane	ug/L	<2.4	5.0	07/09/18 13:32	
Carbon tetrachloride	ug/L	<0.50	1.0	07/09/18 13:32	
Chlorobenzene	ug/L	<0.50	1.0	07/09/18 13:32	
Chloroethane	ug/L	<0.37	1.0	07/09/18 13:32	
Chloroform	ug/L	<2.5	5.0	07/09/18 13:32	
Chloromethane	ug/L	<0.50	1.0	07/09/18 13:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	07/09/18 13:32	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	07/09/18 13:32	
Dibromochloromethane	ug/L	<0.50	1.0	07/09/18 13:32	
Dibromomethane	ug/L	<0.43	1.0	07/09/18 13:32	
Dichlorodifluoromethane	ug/L	<0.22	1.0	07/09/18 13:32	
Diisopropyl ether	ug/L	<0.50	1.0	07/09/18 13:32	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40171765

METHOD BLANK: 1716203

Matrix: Water

Associated Lab Samples: 40171765001, 40171765002, 40171765003, 40171765004, 40171765005, 40171765006, 40171765007, 40171765008, 40171765009, 40171765010, 40171765011, 40171765012, 40171765013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	07/09/18 13:32	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	07/09/18 13:32	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	07/09/18 13:32	
m&p-Xylene	ug/L	<1.0	2.0	07/09/18 13:32	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/09/18 13:32	
Methylene Chloride	ug/L	<0.23	1.0	07/09/18 13:32	
n-Butylbenzene	ug/L	<0.50	1.0	07/09/18 13:32	
n-Propylbenzene	ug/L	<0.50	1.0	07/09/18 13:32	
Naphthalene	ug/L	<2.5	5.0	07/09/18 13:32	
o-Xylene	ug/L	<0.50	1.0	07/09/18 13:32	
p-Isopropyltoluene	ug/L	<0.50	1.0	07/09/18 13:32	
sec-Butylbenzene	ug/L	<2.2	5.0	07/09/18 13:32	
Styrene	ug/L	<0.50	1.0	07/09/18 13:32	
tert-Butylbenzene	ug/L	<0.18	1.0	07/09/18 13:32	
Tetrachloroethene	ug/L	<0.50	1.0	07/09/18 13:32	
Toluene	ug/L	<0.50	1.0	07/09/18 13:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	07/09/18 13:32	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	07/09/18 13:32	
Trichloroethene	ug/L	<0.33	1.0	07/09/18 13:32	
Trichlorofluoromethane	ug/L	<0.18	1.0	07/09/18 13:32	
Vinyl chloride	ug/L	<0.18	1.0	07/09/18 13:32	
4-Bromofluorobenzene (S)	%	97	70-130	07/09/18 13:32	
Dibromofluoromethane (S)	%	100	70-130	07/09/18 13:32	
Toluene-d8 (S)	%	100	70-130	07/09/18 13:32	

LABORATORY CONTROL SAMPLE: 1716204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.6	111	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	54.1	108	67-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	56.7	113	70-134	
1,1-Dichloroethene	ug/L	50	58.0	116	75-132	
1,2,4-Trichlorobenzene	ug/L	50	54.0	108	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	70-130	
1,2-Dichlorobenzene	ug/L	50	54.2	108	70-130	
1,2-Dichloroethane	ug/L	50	55.2	110	73-134	
1,2-Dichloropropane	ug/L	50	52.4	105	79-128	
1,3-Dichlorobenzene	ug/L	50	53.5	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.1	104	70-130	
Benzene	ug/L	50	55.5	111	69-137	
Bromodichloromethane	ug/L	50	53.2	106	70-130	

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40171765

LABORATORY CONTROL SAMPLE: 1716204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	45.2	90	64-133	
Bromomethane	ug/L	50	38.6	77	29-123	
Carbon tetrachloride	ug/L	50	53.7	107	73-142	
Chlorobenzene	ug/L	50	53.4	107	70-130	
Chloroethane	ug/L	50	52.1	104	59-133	
Chloroform	ug/L	50	52.1	104	80-129	
Chloromethane	ug/L	50	52.8	106	27-125	
cis-1,2-Dichloroethene	ug/L	50	54.5	109	70-134	
cis-1,3-Dichloropropene	ug/L	50	54.0	108	70-130	
Dibromochloromethane	ug/L	50	50.7	101	70-130	
Dichlorodifluoromethane	ug/L	50	43.0	86	12-127	
Ethylbenzene	ug/L	50	57.9	116	86-127	
Isopropylbenzene (Cumene)	ug/L	50	59.1	118	70-130	
m&p-Xylene	ug/L	100	115	115	70-131	
Methyl-tert-butyl ether	ug/L	50	51.6	103	65-136	
Methylene Chloride	ug/L	50	56.9	114	72-133	
o-Xylene	ug/L	50	57.2	114	70-130	
Styrene	ug/L	50	58.0	116	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	54.2	108	84-124	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	70-133	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	67-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	61.2	122	69-147	
Vinyl chloride	ug/L	50	55.9	112	48-134	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716849 1716850

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40171765001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	52.8	55.7	106	111	70-136	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	53.3	53.7	107	107	67-133	1	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.9	52.3	104	105	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	53.2	55.3	106	111	70-139	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	54.6	56.1	109	112	72-137	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	53.2	52.0	106	104	68-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	50.3	51.1	101	102	60-130	2	21	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.1	52.2	104	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.3	52.6	107	105	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.8	56.4	106	113	71-137	7	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	50.8	50.6	102	101	78-130	0	20	

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716849		1716850		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40171765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	ug/L	<0.50	50	50	53.4	52.3	107	105	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.1	51.8	102	104	70-130	1	20		
Benzene	ug/L	<0.50	50	50	53.3	55.8	107	112	66-143	5	20		
Bromodichloromethane	ug/L	4.1	50	50	57.9	56.6	108	105	70-130	2	20		
Bromoform	ug/L	<0.50	50	50	44.2	44.9	88	90	64-134	2	20		
Bromomethane	ug/L	<2.4	50	50	39.0	41.3	78	83	29-136	6	25		
Carbon tetrachloride	ug/L	<0.50	50	50	51.9	54.2	104	108	73-142	4	20		
Chlorobenzene	ug/L	<0.50	50	50	51.7	52.4	103	105	70-130	1	20		
Chloroethane	ug/L	<0.37	50	50	49.6	52.3	99	105	58-138	5	20		
Chloroform	ug/L	44.1	50	50	93.9	95.6	99	103	80-131	2	20		
Chloromethane	ug/L	<0.50	50	50	47.1	48.7	94	97	24-125	3	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	51.9	54.0	104	108	68-137	4	22		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	53.3	52.3	107	105	70-130	2	20		
Dibromochloromethane	ug/L	0.50J	50	50	50.6	51.4	100	102	70-131	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	40.4	42.0	81	84	10-127	4	20		
Ethylbenzene	ug/L	<0.50	50	50	56.3	56.5	113	113	81-136	0	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	57.9	58.0	116	116	70-132	0	20		
m&p-Xylene	ug/L	<1.0	100	100	113	112	113	112	70-135	1	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.5	51.3	99	103	58-142	4	23		
Methylene Chloride	ug/L	<0.23	50	50	53.4	55.7	107	111	69-137	4	20		
o-Xylene	ug/L	<0.50	50	50	57.0	57.1	114	114	70-132	0	20		
Styrene	ug/L	<0.50	50	50	57.4	57.2	115	114	70-130	0	20		
Tetrachloroethene	ug/L	19.1	50	50	69.5	65.8	101	93	70-132	6	20		
Toluene	ug/L	<0.50	50	50	52.4	52.3	105	105	81-130	0	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	53.7	55.4	107	111	70-136	3	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	52.1	51.5	104	103	67-130	1	20		
Trichloroethene	ug/L	0.47J	50	50	53.1	52.8	105	105	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	57.3	59.0	115	118	66-150	3	20		
Vinyl chloride	ug/L	<0.18	50	50	52.3	54.2	105	108	46-134	3	20		
4-Bromofluorobenzene (S)	%						103	102	70-130				
Dibromofluoromethane (S)	%						99	103	70-130				
Toluene-d8 (S)	%						100	99	70-130				

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

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## QUALIFIERS

Project: 1933B NORMINGTON

Pace Project No.: 40171765

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### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1933B NORMINGTON

Pace Project No.: 40171765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171765001	CPZ4R	EPA 8260	293361		
40171765002	CPZ5	EPA 8260	293361		
40171765003	CPZ6	EPA 8260	293361		
40171765004	PZWR2	EPA 8260	293361		
40171765005	CPZ7	EPA 8260	293361		
40171765006	CPZ8	EPA 8260	293361		
40171765007	MW-2R	EPA 8260	293361		
40171765008	CPZ9	EPA 8260	293361		
40171765009	CPZ10	EPA 8260	293361		
40171765010	CPZ11	EPA 8260	293361		
40171765011	CPZ12	EPA 8260	293361		
40171765012	CPZ13	EPA 8260	293361		
40171765013	CPZ14	EPA 8260	293361		

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



40171765

Company Name: REI  
 Branch/Location: Wausau  
 Project Contact: Andy DeFarge  
 Phone: (715) 675-0984  
 Project Number: 1933B  
 Project Name: Narmington  
 Project State: WI  
 Sampled By (Print): Jed Korch  
 Sampled By (Sign): *[Signature]*  
 PO #:   
 Regulatory Program:

**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

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	N																			
Pick Letter	B																			
Analyses Requested																				
	VOC																			

Quote #:   
 Mail To Contact: Andy DeFarge  
 Mail To Company: REI  
 Mail To Address: addefarge@reengineering.com  
 Invoice To Contact: *[Signature]*  
 Invoice To Company:   
 Invoice To Address:   
 Invoice To Phone:   
 CLIENT COMMENTS LAB COMMENTS Profile #

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		MATRIX
		DATE	TIME	
001	CP24A	6/27/18	2:50	GW
002	CP25		1:10	
003	CP26		11:10	
004	P2WR2		1:40	
005	CP27		12:25	
006	CP28		12:45	
007	MW2R		3:15	
008	CP29		12:00	
009	CP210		11:35	
010	CP211		10:45	
011	CP212		9:25	
012	CP213		8:45	
013	CP214		8:15	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:   
 Relinquished By: *[Signature]* Date/Time: 6/24/18-3:30  
 Received By: *[Signature]* Date/Time:   
 Transmit Prelim Rush Results by (complete what you want):   
 Relinquished By: *[Signature]* Date/Time: 6/29/18 09:05  
 Received By: *[Signature]* Date/Time:   
 Email #1:   
 Relinquished By:   
 Date/Time:   
 Received By:   
 Date/Time:   
 Email #2:   
 Relinquished By:   
 Date/Time:   
 Received By:   
 Date/Time:   
 Telephone:   
 Relinquished By:   
 Date/Time:   
 Received By:   
 Date/Time:   
 Fax:   
 Relinquished By:   
 Date/Time:   
 Received By:   
 Date/Time:   
 Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40171765  
 Receipt Temp = *RA* °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

**Sample Preservation Receipt Form**

Client Name: REI

Project # 40171765

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	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																																					2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					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**

<b>AG1U</b>	1 liter amber glass	<b>BP1U</b>	1 liter plastic unpres	<b>DG9A</b>	40 mL amber ascorbic	<b>JGFU</b>	4 oz amber jar unpres
<b>AG1H</b>	1 liter amber glass HCL	<b>BP2N</b>	500 mL plastic HNO3	<b>DG9T</b>	40 mL amber Na Thio	<b>WGFU</b>	4 oz clear jar unpres
<b>AG4S</b>	125 mL amber glass H2SO4	<b>BP2Z</b>	500 mL plastic NaOH, Znact	<b>VG9U</b>	40 mL clear vial unpres	<b>WPFU</b>	4 oz plastic jar unpres
<b>AG4U</b>	120 mL amber glass unpres	<b>BP3U</b>	250 mL plastic unpres	<b>VG9H</b>	40 mL clear vial HCL		
<b>AG5U</b>	100 mL amber glass unpres	<b>BP3C</b>	250 mL plastic NaOH	<b>VG9M</b>	40 mL clear vial MeOH	<b>SP5T</b>	120 mL plastic Na Thiosulfate
<b>AG2S</b>	500 mL amber glass H2SO4	<b>BP3N</b>	250 mL plastic HNO3	<b>VG9D</b>	40 mL clear vial DI	<b>ZPLC</b>	ziploc bag
<b>BG3U</b>	250 mL clear glass unpres	<b>BP3S</b>	250 mL plastic H2SO4			<b>GN:</b>	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Project # **WO# : 40171765**

Client Name: REI

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waitco  
 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: \_\_\_\_\_ / Corr: PO

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 6/29/18  
 Initials: CHL

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: [Signature] Date: 6-29-18

July 18, 2018

Andy Delforge  
REI  
4080 North 20th Avenue  
Wausau, WI 54401

RE: Project: 1933 NORMINGTON  
Pace Project No.: 40172481

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 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,



Brian Basten  
brian.basten@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

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### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1933 NORMINGTON

Pace Project No.: 40172481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40172481001	CPZ11	Water	07/13/18 09:50	07/14/18 08:10
40172481002	CPZ12	Water	07/13/18 10:15	07/14/18 08:10
40172481003	CPZ10	Water	07/13/18 10:30	07/14/18 08:10
40172481004	CPZ13	Water	07/13/18 11:00	07/14/18 08:10
40172481005	CPZ14	Water	07/13/18 11:15	07/14/18 08:10
40172481006	CPZ9	Water	07/13/18 11:40	07/14/18 08:10
40172481007	CPZ4	Water	07/13/18 12:00	07/14/18 08:10

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### SAMPLE ANALYTE COUNT

Project: 1933 NORMINGTON

Pace Project No.: 40172481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40172481001	CPZ11	EPA 8260	LAP	64	PASI-G
40172481002	CPZ12	EPA 8260	LAP	64	PASI-G
40172481003	CPZ10	EPA 8260	LAP	64	PASI-G
40172481004	CPZ13	EPA 8260	LAP	64	PASI-G
40172481005	CPZ14	EPA 8260	LAP	64	PASI-G
40172481006	CPZ9	EPA 8260	LAP	64	PASI-G
40172481007	CPZ4	EPA 8260	LAP	64	PASI-G

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

Sample: CPZ11 Lab ID: 40172481001 Collected: 07/13/18 09:50 Received: 07/14/18 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	0.74J	ug/L	1.0	0.50	1		07/17/18 16:56	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 16:56	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 16:56	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 16:56	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 16:56	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 16:56	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 16:56	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/17/18 16:56	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 16:56	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 16:56	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 16:56	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 16:56	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 16:56	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 16:56	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 16:56	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 16:56	75-35-4	
cis-1,2-Dichloroethene	2.3	ug/L	1.0	0.26	1		07/17/18 16:56	156-59-2	
trans-1,2-Dichloroethene	0.52J	ug/L	1.0	0.26	1		07/17/18 16:56	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 16:56	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 16:56	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 16:56	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 16:56	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 16:56	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 16:56	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 16:56	75-09-2	
Methyl-tert-butyl ether	3.5	ug/L	1.0	0.17	1		07/17/18 16:56	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 16:56	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 16:56	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ11**      **Lab ID: 40172481001**      Collected: 07/13/18 09:50      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 16:56	79-34-5	
Tetrachloroethene	11.2	ug/L	1.0	0.50	1		07/17/18 16:56	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 16:56	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 16:56	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 16:56	79-00-5	
Trichloroethene	16.8	ug/L	1.0	0.33	1		07/17/18 16:56	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 16:56	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 16:56	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 16:56	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		07/17/18 16:56	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		07/17/18 16:56	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/17/18 16:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ12**      **Lab ID: 40172481002**      Collected: 07/13/18 10:15      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 15:48	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 15:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 15:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 15:48	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 15:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 15:48	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/17/18 15:48	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 15:48	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 15:48	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 15:48	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 15:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 15:48	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 15:48	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 15:48	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 15:48	75-35-4	
cis-1,2-Dichloroethene	30.0	ug/L	1.0	0.26	1		07/17/18 15:48	156-59-2	
trans-1,2-Dichloroethene	44.9	ug/L	1.0	0.26	1		07/17/18 15:48	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 15:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 15:48	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 15:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 15:48	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 15:48	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 15:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 15:48	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/17/18 15:48	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 15:48	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 15:48	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ12**      **Lab ID: 40172481002**      Collected: 07/13/18 10:15      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 15:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 15:48	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 15:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 15:48	79-00-5	
Trichloroethene	46.6	ug/L	1.0	0.33	1		07/17/18 15:48	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 15:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 15:48	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 15:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 15:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/17/18 15:48	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		07/17/18 15:48	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/17/18 15:48	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ10**      **Lab ID: 40172481003**      Collected: 07/13/18 10:30      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 17:19	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 17:19	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 17:19	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 17:19	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 17:19	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 17:19	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/17/18 17:19	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 17:19	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 17:19	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 17:19	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 17:19	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 17:19	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 17:19	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 17:19	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 17:19	75-35-4	
cis-1,2-Dichloroethene	1.2	ug/L	1.0	0.26	1		07/17/18 17:19	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/17/18 17:19	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 17:19	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 17:19	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 17:19	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 17:19	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 17:19	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 17:19	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 17:19	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/17/18 17:19	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 17:19	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 17:19	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ10**      **Lab ID: 40172481003**      Collected: 07/13/18 10:30      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 17:19	79-34-5	
Tetrachloroethene	19.0	ug/L	1.0	0.50	1		07/17/18 17:19	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 17:19	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 17:19	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 17:19	79-00-5	
Trichloroethene	29.8	ug/L	1.0	0.33	1		07/17/18 17:19	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 17:19	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 17:19	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 17:19	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/17/18 17:19	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		07/17/18 17:19	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/17/18 17:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

Sample: CPZ13 Lab ID: 40172481004 Collected: 07/13/18 11:00 Received: 07/14/18 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	0.55J	ug/L	1.0	0.50	1		07/17/18 17:41	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 17:41	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 17:41	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 17:41	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 17:41	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 17:41	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 17:41	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/17/18 17:41	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 17:41	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 17:41	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 17:41	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 17:41	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 17:41	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 17:41	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 17:41	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 17:41	75-35-4	
cis-1,2-Dichloroethene	34.1	ug/L	1.0	0.26	1		07/17/18 17:41	156-59-2	
trans-1,2-Dichloroethene	51.1	ug/L	1.0	0.26	1		07/17/18 17:41	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 17:41	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 17:41	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 17:41	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 17:41	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 17:41	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 17:41	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 17:41	75-09-2	
Methyl-tert-butyl ether	0.76J	ug/L	1.0	0.17	1		07/17/18 17:41	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 17:41	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 17:41	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ13**      **Lab ID: 40172481004**      Collected: 07/13/18 11:00      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 17:41	79-34-5	
Tetrachloroethene	14.4	ug/L	1.0	0.50	1		07/17/18 17:41	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 17:41	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 17:41	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 17:41	79-00-5	
Trichloroethene	40.5	ug/L	1.0	0.33	1		07/17/18 17:41	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 17:41	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 17:41	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 17:41	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 17:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/17/18 17:41	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		07/17/18 17:41	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/17/18 17:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ14**      **Lab ID: 40172481005**      Collected: 07/13/18 11:15      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	71-43-2	
Bromobenzene	<0.46	ug/L	2.0	0.46	2		07/17/18 16:11	108-86-1	
Bromochloromethane	<0.68	ug/L	2.0	0.68	2		07/17/18 16:11	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	75-27-4	
Bromoform	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	75-25-2	
Bromomethane	<4.9	ug/L	10.0	4.9	2		07/17/18 16:11	74-83-9	
n-Butylbenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	104-51-8	
sec-Butylbenzene	<4.4	ug/L	10.0	4.4	2		07/17/18 16:11	135-98-8	
tert-Butylbenzene	<0.36	ug/L	2.0	0.36	2		07/17/18 16:11	98-06-6	
Carbon tetrachloride	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	56-23-5	
Chlorobenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	108-90-7	
Chloroethane	<0.75	ug/L	2.0	0.75	2		07/17/18 16:11	75-00-3	
Chloroform	<5.0	ug/L	10.0	5.0	2		07/17/18 16:11	67-66-3	
Chloromethane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	74-87-3	
2-Chlorotoluene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	95-49-8	
4-Chlorotoluene	<0.43	ug/L	2.0	0.43	2		07/17/18 16:11	106-43-4	
1,2-Dibromo-3-chloropropane	<4.3	ug/L	10.0	4.3	2		07/17/18 16:11	96-12-8	
Dibromochloromethane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.36	ug/L	2.0	0.36	2		07/17/18 16:11	106-93-4	
Dibromomethane	<0.85	ug/L	2.0	0.85	2		07/17/18 16:11	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	106-46-7	
Dichlorodifluoromethane	<0.45	ug/L	2.0	0.45	2		07/17/18 16:11	75-71-8	
1,1-Dichloroethane	<0.48	ug/L	2.0	0.48	2		07/17/18 16:11	75-34-3	
1,2-Dichloroethane	<0.34	ug/L	2.0	0.34	2		07/17/18 16:11	107-06-2	
1,1-Dichloroethene	<0.82	ug/L	2.0	0.82	2		07/17/18 16:11	75-35-4	
cis-1,2-Dichloroethene	1.4J	ug/L	2.0	0.51	2		07/17/18 16:11	156-59-2	
trans-1,2-Dichloroethene	1.9J	ug/L	2.0	0.51	2		07/17/18 16:11	156-60-5	
1,2-Dichloropropane	<0.47	ug/L	2.0	0.47	2		07/17/18 16:11	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	142-28-9	
2,2-Dichloropropane	<0.97	ug/L	2.0	0.97	2		07/17/18 16:11	594-20-7	
1,1-Dichloropropene	<0.88	ug/L	2.0	0.88	2		07/17/18 16:11	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	10061-01-5	
trans-1,3-Dichloropropene	<0.46	ug/L	2.0	0.46	2		07/17/18 16:11	10061-02-6	
Diisopropyl ether	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	108-20-3	
Ethylbenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	100-41-4	
Hexachloro-1,3-butadiene	<4.2	ug/L	10.0	4.2	2		07/17/18 16:11	87-68-3	
Isopropylbenzene (Cumene)	<0.29	ug/L	2.0	0.29	2		07/17/18 16:11	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	99-87-6	
Methylene Chloride	<0.47	ug/L	2.0	0.47	2		07/17/18 16:11	75-09-2	
Methyl-tert-butyl ether	<0.35	ug/L	2.0	0.35	2		07/17/18 16:11	1634-04-4	
Naphthalene	<5.0	ug/L	10.0	5.0	2		07/17/18 16:11	91-20-3	
n-Propylbenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	103-65-1	
Styrene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	2.0	0.36	2		07/17/18 16:11	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ14**      **Lab ID: 40172481005**      Collected: 07/13/18 11:15      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.50	ug/L	2.0	0.50	2		07/17/18 16:11	79-34-5	
Tetrachloroethene	150	ug/L	2.0	1.0	2		07/17/18 16:11	127-18-4	
Toluene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	108-88-3	
1,2,3-Trichlorobenzene	<4.3	ug/L	10.0	4.3	2		07/17/18 16:11	87-61-6	
1,2,4-Trichlorobenzene	<4.4	ug/L	10.0	4.4	2		07/17/18 16:11	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	2.0	0.39	2		07/17/18 16:11	79-00-5	
Trichloroethene	21.5	ug/L	2.0	0.66	2		07/17/18 16:11	79-01-6	
Trichlorofluoromethane	<0.37	ug/L	2.0	0.37	2		07/17/18 16:11	75-69-4	
1,2,3-Trichloropropane	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	96-18-4	
1,2,4-Trimethylbenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	108-67-8	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		07/17/18 16:11	75-01-4	
m&p-Xylene	<2.0	ug/L	4.0	2.0	2		07/17/18 16:11	179601-23-1	
o-Xylene	<1.0	ug/L	2.0	1.0	2		07/17/18 16:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		2		07/17/18 16:11	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		2		07/17/18 16:11	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2		07/17/18 16:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ9**      **Lab ID: 40172481006**      Collected: 07/13/18 11:40      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 18:04	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 18:04	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 18:04	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 18:04	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 18:04	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 18:04	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		07/17/18 18:04	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 18:04	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 18:04	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 18:04	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 18:04	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 18:04	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 18:04	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 18:04	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 18:04	75-35-4	
cis-1,2-Dichloroethene	5.0	ug/L	1.0	0.26	1		07/17/18 18:04	156-59-2	
trans-1,2-Dichloroethene	7.7	ug/L	1.0	0.26	1		07/17/18 18:04	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 18:04	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 18:04	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 18:04	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 18:04	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 18:04	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 18:04	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 18:04	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/17/18 18:04	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 18:04	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 18:04	630-20-6	

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### ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ9**      **Lab ID: 40172481006**      Collected: 07/13/18 11:40      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 18:04	79-34-5	
Tetrachloroethene	3.4	ug/L	1.0	0.50	1		07/17/18 18:04	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 18:04	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 18:04	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 18:04	79-00-5	
Trichloroethene	5.6	ug/L	1.0	0.33	1		07/17/18 18:04	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 18:04	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 18:04	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 18:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 18:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/17/18 18:04	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		07/17/18 18:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/17/18 18:04	2037-26-5	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ4**      **Lab ID: 40172481007**      Collected: 07/13/18 12:00      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		07/17/18 16:33	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		07/17/18 16:33	74-97-5	
Bromodichloromethane	3.8	ug/L	1.0	0.50	1		07/17/18 16:33	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		07/17/18 16:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 16:33	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		07/17/18 16:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		07/17/18 16:33	75-00-3	
Chloroform	39.6	ug/L	5.0	2.5	1		07/17/18 16:33	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		07/17/18 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		07/17/18 16:33	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		07/17/18 16:33	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		07/17/18 16:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		07/17/18 16:33	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		07/17/18 16:33	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		07/17/18 16:33	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		07/17/18 16:33	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/17/18 16:33	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		07/17/18 16:33	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		07/17/18 16:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		07/17/18 16:33	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		07/17/18 16:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		07/17/18 16:33	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		07/17/18 16:33	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		07/17/18 16:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		07/17/18 16:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		07/17/18 16:33	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		07/17/18 16:33	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		07/17/18 16:33	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

**Sample: CPZ4**      **Lab ID: 40172481007**      Collected: 07/13/18 12:00      Received: 07/14/18 08:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		07/17/18 16:33	79-34-5	
Tetrachloroethene	127	ug/L	1.0	0.50	1		07/17/18 16:33	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		07/17/18 16:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		07/17/18 16:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		07/17/18 16:33	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		07/17/18 16:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		07/17/18 16:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		07/17/18 16:33	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		07/17/18 16:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		07/17/18 16:33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		07/17/18 16:33	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		07/17/18 16:33	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/17/18 16:33	2037-26-5	

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### QUALITY CONTROL DATA

Project: 1933 NORMINGTON  
Pace Project No.: 40172481

QC Batch: 294556 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40172481001, 40172481002, 40172481003, 40172481004, 40172481005, 40172481006, 40172481007

METHOD BLANK: 1722540 Matrix: Water  
Associated Lab Samples: 40172481001, 40172481002, 40172481003, 40172481004, 40172481005, 40172481006, 40172481007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	07/17/18 13:03	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	07/17/18 13:03	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	07/17/18 13:03	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	07/17/18 13:03	
1,1-Dichloroethane	ug/L	<0.24	1.0	07/17/18 13:03	
1,1-Dichloroethene	ug/L	<0.41	1.0	07/17/18 13:03	
1,1-Dichloropropene	ug/L	<0.44	1.0	07/17/18 13:03	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	07/17/18 13:03	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	07/17/18 13:03	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	07/17/18 13:03	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/17/18 13:03	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	07/17/18 13:03	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/17/18 13:03	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	07/17/18 13:03	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/17/18 13:03	
1,2-Dichloropropane	ug/L	<0.23	1.0	07/17/18 13:03	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/17/18 13:03	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	07/17/18 13:03	
1,3-Dichloropropane	ug/L	<0.50	1.0	07/17/18 13:03	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	07/17/18 13:03	
2,2-Dichloropropane	ug/L	<0.48	1.0	07/17/18 13:03	
2-Chlorotoluene	ug/L	<0.50	1.0	07/17/18 13:03	
4-Chlorotoluene	ug/L	<0.21	1.0	07/17/18 13:03	
Benzene	ug/L	<0.50	1.0	07/17/18 13:03	
Bromobenzene	ug/L	<0.23	1.0	07/17/18 13:03	
Bromochloromethane	ug/L	<0.34	1.0	07/17/18 13:03	
Bromodichloromethane	ug/L	<0.50	1.0	07/17/18 13:03	
Bromoform	ug/L	<0.50	1.0	07/17/18 13:03	
Bromomethane	ug/L	<2.4	5.0	07/17/18 13:03	
Carbon tetrachloride	ug/L	<0.50	1.0	07/17/18 13:03	
Chlorobenzene	ug/L	<0.50	1.0	07/17/18 13:03	
Chloroethane	ug/L	<0.37	1.0	07/17/18 13:03	
Chloroform	ug/L	<2.5	5.0	07/17/18 13:03	
Chloromethane	ug/L	<0.50	1.0	07/17/18 13:03	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	07/17/18 13:03	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	07/17/18 13:03	
Dibromochloromethane	ug/L	<0.50	1.0	07/17/18 13:03	
Dibromomethane	ug/L	<0.43	1.0	07/17/18 13:03	
Dichlorodifluoromethane	ug/L	<0.22	1.0	07/17/18 13:03	
Diisopropyl ether	ug/L	<0.50	1.0	07/17/18 13:03	
Ethylbenzene	ug/L	<0.50	1.0	07/17/18 13:03	

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### QUALITY CONTROL DATA

Project: 1933 NORMINGTON

Pace Project No.: 40172481

METHOD BLANK: 1722540

Matrix: Water

Associated Lab Samples: 40172481001, 40172481002, 40172481003, 40172481004, 40172481005, 40172481006, 40172481007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	07/17/18 13:03	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	07/17/18 13:03	
m&p-Xylene	ug/L	<1.0	2.0	07/17/18 13:03	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/17/18 13:03	
Methylene Chloride	ug/L	<0.23	1.0	07/17/18 13:03	
n-Butylbenzene	ug/L	<0.50	1.0	07/17/18 13:03	
n-Propylbenzene	ug/L	<0.50	1.0	07/17/18 13:03	
Naphthalene	ug/L	<2.5	5.0	07/17/18 13:03	
o-Xylene	ug/L	<0.50	1.0	07/17/18 13:03	
p-Isopropyltoluene	ug/L	<0.50	1.0	07/17/18 13:03	
sec-Butylbenzene	ug/L	<2.2	5.0	07/17/18 13:03	
Styrene	ug/L	<0.50	1.0	07/17/18 13:03	
tert-Butylbenzene	ug/L	<0.18	1.0	07/17/18 13:03	
Tetrachloroethene	ug/L	<0.50	1.0	07/17/18 13:03	
Toluene	ug/L	<0.50	1.0	07/17/18 13:03	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	07/17/18 13:03	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	07/17/18 13:03	
Trichloroethene	ug/L	<0.33	1.0	07/17/18 13:03	
Trichlorofluoromethane	ug/L	<0.18	1.0	07/17/18 13:03	
Vinyl chloride	ug/L	<0.18	1.0	07/17/18 13:03	
4-Bromofluorobenzene (S)	%	96	70-130	07/17/18 13:03	
Dibromofluoromethane (S)	%	103	70-130	07/17/18 13:03	
Toluene-d8 (S)	%	101	70-130	07/17/18 13:03	

LABORATORY CONTROL SAMPLE: 1722541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-133	
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	67-130	
1,1,2-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethane	ug/L	50	54.4	109	70-134	
1,1-Dichloroethene	ug/L	50	55.4	111	75-132	
1,2,4-Trichlorobenzene	ug/L	50	54.6	109	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	53.6	107	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	51.8	104	73-134	
1,2-Dichloropropane	ug/L	50	54.4	109	79-128	
1,3-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,4-Dichlorobenzene	ug/L	50	54.8	110	70-130	
Benzene	ug/L	50	53.7	107	69-137	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	52.7	105	64-133	
Bromomethane	ug/L	50	26.6	53	29-123	

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### QUALITY CONTROL DATA

Project: 1933 NORMINGTON

Pace Project No.: 40172481

LABORATORY CONTROL SAMPLE: 1722541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.0	108	73-142	
Chlorobenzene	ug/L	50	55.8	112	70-130	
Chloroethane	ug/L	50	54.2	108	59-133	
Chloroform	ug/L	50	52.1	104	80-129	
Chloromethane	ug/L	50	37.3	75	27-125	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	70-130	
Dibromochloromethane	ug/L	50	54.7	109	70-130	
Dichlorodifluoromethane	ug/L	50	31.7	63	12-127	
Ethylbenzene	ug/L	50	56.8	114	86-127	
Isopropylbenzene (Cumene)	ug/L	50	59.4	119	70-130	
m&p-Xylene	ug/L	100	119	119	70-131	
Methyl-tert-butyl ether	ug/L	50	46.7	93	65-136	
Methylene Chloride	ug/L	50	53.5	107	72-133	
o-Xylene	ug/L	50	59.3	119	70-130	
Styrene	ug/L	50	58.3	117	70-130	
Tetrachloroethene	ug/L	50	56.6	113	70-130	
Toluene	ug/L	50	55.2	110	84-124	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	70-133	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	67-130	
Trichloroethene	ug/L	50	53.8	108	70-130	
Trichlorofluoromethane	ug/L	50	53.6	107	69-147	
Vinyl chloride	ug/L	50	49.2	98	48-134	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723617 1723618

Parameter	Units	40172481002		MSD		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	50.0	47.1	100	94	70-136	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.8	52.7	102	105	67-133	4	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.8	50.3	102	101	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	50.8	49.1	102	98	70-139	4	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	52.6	51.8	105	103	72-137	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	53.1	51.6	106	103	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	49.1	50.9	98	102	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.1	51.2	100	102	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	52.3	49.8	105	100	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.9	49.9	98	100	71-137	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	53.2	50.8	106	102	78-130	5	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	52.1	48.4	104	97	70-130	7	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.5	49.5	103	99	70-130	4	20	

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: 1933 NORMINGTON

Pace Project No.: 40172481

Parameter	Units	40172481002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Benzene	ug/L	<0.50	50	50	50.1	48.0	100	96	66-143	4	20					
Bromodichloromethane	ug/L	<0.50	50	50	48.7	46.9	97	94	70-130	4	20					
Bromoform	ug/L	<0.50	50	50	51.2	50.8	102	102	64-134	1	20					
Bromomethane	ug/L	<2.4	50	50	27.9	29.8	56	60	29-136	7	25					
Carbon tetrachloride	ug/L	<0.50	50	50	50.8	48.3	102	97	73-142	5	20					
Chlorobenzene	ug/L	<0.50	50	50	53.0	49.5	106	99	70-130	7	20					
Chloroethane	ug/L	<0.37	50	50	51.2	47.6	102	95	58-138	7	20					
Chloroform	ug/L	<2.5	50	50	46.5	47.8	93	96	80-131	3	20					
Chloromethane	ug/L	<0.50	50	50	34.8	34.5	70	69	24-125	1	20					
cis-1,2-Dichloroethene	ug/L	30.0	50	50	76.4	74.0	93	88	68-137	3	22					
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.2	48.8	102	98	70-130	5	20					
Dibromochloromethane	ug/L	<0.50	50	50	51.6	50.7	103	101	70-131	2	20					
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.7	28.7	61	57	10-127	7	20					
Ethylbenzene	ug/L	<0.50	50	50	53.6	48.6	107	97	81-136	10	20					
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	54.9	49.9	110	100	70-132	10	20					
m&p-Xylene	ug/L	<1.0	100	100	108	99.5	108	99	70-135	9	20					
Methyl-tert-butyl ether	ug/L	<0.17	50	50	44.9	46.9	90	94	58-142	4	23					
Methylene Chloride	ug/L	<0.23	50	50	48.8	49.6	98	99	69-137	2	20					
o-Xylene	ug/L	<0.50	50	50	55.2	50.1	110	100	70-132	10	20					
Styrene	ug/L	<0.50	50	50	54.9	50.5	110	101	70-130	8	20					
Tetrachloroethene	ug/L	<0.50	50	50	54.2	49.2	108	98	70-132	10	20					
Toluene	ug/L	<0.50	50	50	53.1	49.3	106	99	81-130	7	20					
trans-1,2-Dichloroethene	ug/L	44.9	50	50	93.7	90.1	98	90	70-136	4	20					
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	52.1	51.6	104	103	67-130	1	20					
Trichloroethene	ug/L	46.6	50	50	96.9	91.1	101	89	70-131	6	20					
Trichlorofluoromethane	ug/L	<0.18	50	50	52.0	49.4	104	99	66-150	5	20					
Vinyl chloride	ug/L	<0.18	50	50	46.7	44.9	93	90	46-134	4	20					
4-Bromofluorobenzene (S)	%						97	97	70-130							
Dibromofluoromethane (S)	%						99	98	70-130							
Toluene-d8 (S)	%						102	101	70-130							

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## QUALIFIERS

Project: 1933 NORMINGTON

Pace Project No.: 40172481

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### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1933 NORMINGTON

Pace Project No.: 40172481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40172481001	CPZ11	EPA 8260	294556		
40172481002	CPZ12	EPA 8260	294556		
40172481003	CPZ10	EPA 8260	294556		
40172481004	CPZ13	EPA 8260	294556		
40172481005	CPZ14	EPA 8260	294556		
40172481006	CPZ9	EPA 8260	294556		
40172481007	CPZ4	EPA 8260	294556		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Mez  
 Branch/Location: Watson  
 Project Contact: Andy DeForge  
 Phone: 715-675-9784  
 Project Number: 1933  
 Project Name: NORWATSON  
 Project State: WI  
 Sampled By (Print): Andy DeForge  
 Sampled By (Sign): [Signature]  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



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

40172481

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### 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

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

Y/N	Pick Letter	Analysis Requested	Matrix Codes																	
			A	B	C	D	E	F	G	H	I	J								
~	B	Veg																		

**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		MATRIX	Analysis Requested
		DATE	TIME		
001	CP211	7/13/18	9:50	G	+
002	CP212		10:15		+
003	CP210		10:30		+
004	CP213		11:00		+
005	CP214		11:15		+
006	CP29		11:40		+
007	CP24		12:00		2

**Quote #:** \_\_\_\_\_

**Mail To Contact:** ND

**Mail To Company:** Mez

**Mail To Address:** \_\_\_\_\_

**Invoice To Contact:** \_\_\_\_\_

**Invoice To Company:** Mez

**Invoice To Address:** Mez

**Invoice To Phone:** \_\_\_\_\_

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: _____	Relinquished By: <u>[Signature]</u> Date/Time: <u>7/13/18 - 2:10</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40172481</u>
	Transmit Prelim Rush Results by (complete what you want): <u>Waltco</u>	Relinquished By: <u>Waltco</u> Date/Time: <u>7/14/18 0810</u>	
Email #1: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Email #2: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody <u>Seal</u> Present / Not Present Intact / Not Intact
Telephone: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

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

### Sample Preservation Receipt Form

Client Name: RES

Project # 4017248155

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	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																	2																	2.5 / 5 / 10
002																	3																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																	3																	2.5 / 5 / 10
005																	3																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	3																	2.5 / 5 / 10
008																	3																	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

<b>AG1U</b>	1 liter amber glass	<b>BP1U</b>	1 liter plastic unpres	<b>DG9A</b>	40 mL amber ascorbic	<b>JGFU</b>	4 oz amber jar unpres
<b>AG1H</b>	1 liter amber glass HCL	<b>BP2N</b>	500 mL plastic HNO3	<b>DG9T</b>	40 mL amber Na Thio	<b>WGFU</b>	4 oz clear jar unpres
<b>AG4S</b>	125 mL amber glass H2SO4	<b>BP2Z</b>	500 mL plastic NaOH, Znact	<b>VG9U</b>	40 mL clear vial unpres	<b>WPFU</b>	4 oz plastic jar unpres
<b>AG4U</b>	120 mL amber glass unpres	<b>BP3U</b>	250 mL plastic unpres	<b>VG9H</b>	40 mL clear vial HCL		
<b>AG5U</b>	100 mL amber glass unpres	<b>BP3C</b>	250 mL plastic NaOH	<b>VG9M</b>	40 mL clear vial MeOH	<b>SP5T</b>	120 mL plastic Na Thiosulfate
<b>AG2S</b>	500 mL amber glass H2SO4	<b>BP3N</b>	250 mL plastic HNO3	<b>VG9D</b>	40 mL clear vial DI	<b>ZPLC</b>	ziploc bag
<b>BG3U</b>	250 mL clear glass unpres	<b>BP3S</b>	250 mL plastic H2SO4			<b>GN:</b>	



**Sample Condition Upon Receipt Form (SCUR)**

**Client Name:** REI

Project #: \_\_\_\_\_  
**WO#: 40172481**

**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_



**Tracking #:** 1774538-1

**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: Roy / Corr: \_\_\_\_\_

**Temp Blank Present:**  yes  no    **Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
Date: 7/14/15  
Initials: [Signature]

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis    Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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:** [Signature] Date: 7/16/15

August 22, 2018

Andy Delforge  
REI  
4080 North 20th Avenue  
Wausau, WI 54401

RE: Project: 1933B NORMINGTON  
Pace Project No.: 40174279

Dear Andy Delforge:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 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,



Brian Basten  
brian.basten@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

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### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 1933B NORMINGTON

Pace Project No.: 40174279

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174279001	WELL W.	Water	08/15/18 11:15	08/18/18 08:25
40174279002	WELL E.	Water	08/15/18 11:20	08/18/18 08:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 1933B NORMINGTON

Pace Project No.: 40174279

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174279001	WELL W.	EPA 8260	LAP	64	PASI-G
40174279002	WELL E.	EPA 8260	LAP	64	PASI-G

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

**Sample: WELL W.**      **Lab ID: 40174279001**      Collected: 08/15/18 11:15      Received: 08/18/18 08:25      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		08/21/18 16:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/21/18 16:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/21/18 16:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/21/18 16:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/21/18 16:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/21/18 16:42	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 16:42	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/21/18 16:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/21/18 16:42	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/21/18 16:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 16:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/21/18 16:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/21/18 16:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/21/18 16:42	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/21/18 16:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/21/18 16:42	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/21/18 16:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/21/18 16:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/21/18 16:42	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/21/18 16:42	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 16:42	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/21/18 16:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/21/18 16:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/21/18 16:42	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 16:42	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/21/18 16:42	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/21/18 16:42	75-35-4	
cis-1,2-Dichloroethene	8.7	ug/L	1.0	0.27	1		08/21/18 16:42	156-59-2	
trans-1,2-Dichloroethene	10.1	ug/L	3.6	1.1	1		08/21/18 16:42	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/21/18 16:42	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/21/18 16:42	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/21/18 16:42	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/21/18 16:42	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/21/18 16:42	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/21/18 16:42	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/21/18 16:42	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/21/18 16:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/21/18 16:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/21/18 16:42	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/21/18 16:42	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/21/18 16:42	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/21/18 16:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/21/18 16:42	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/21/18 16:42	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/21/18 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 16:42	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

**Sample: WELL W.**      **Lab ID: 40174279001**      Collected: 08/15/18 11:15      Received: 08/18/18 08:25      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/21/18 16:42	79-34-5	
Tetrachloroethene	11.6	ug/L	1.1	0.33	1		08/21/18 16:42	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/21/18 16:42	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/21/18 16:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/21/18 16:42	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/21/18 16:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/21/18 16:42	79-00-5	
Trichloroethene	56.5	ug/L	1.0	0.26	1		08/21/18 16:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/21/18 16:42	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/21/18 16:42	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/21/18 16:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/21/18 16:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/21/18 16:42	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		08/21/18 16:42	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		08/21/18 16:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	87	%	70-130		1		08/21/18 16:42	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		08/21/18 16:42	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/21/18 16:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

**Sample: WELL E.** Lab ID: 40174279002 Collected: 08/15/18 11:20 Received: 08/18/18 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		08/21/18 13:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/21/18 13:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/21/18 13:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/21/18 13:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/21/18 13:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/21/18 13:45	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 13:45	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/21/18 13:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/21/18 13:45	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/21/18 13:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 13:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/21/18 13:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/21/18 13:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/21/18 13:45	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/21/18 13:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/21/18 13:45	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/21/18 13:45	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/21/18 13:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/21/18 13:45	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/21/18 13:45	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/21/18 13:45	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/21/18 13:45	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/21/18 13:45	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/21/18 13:45	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 13:45	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/21/18 13:45	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/21/18 13:45	75-35-4	
cis-1,2-Dichloroethene	8.6	ug/L	1.0	0.27	1		08/21/18 13:45	156-59-2	
trans-1,2-Dichloroethene	13.3	ug/L	3.6	1.1	1		08/21/18 13:45	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/21/18 13:45	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/21/18 13:45	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/21/18 13:45	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/21/18 13:45	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/21/18 13:45	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/21/18 13:45	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/21/18 13:45	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/21/18 13:45	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/21/18 13:45	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	2.7	0.39	1		08/21/18 13:45	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/21/18 13:45	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/21/18 13:45	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/21/18 13:45	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/21/18 13:45	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/21/18 13:45	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/21/18 13:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 13:45	630-20-6	

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## ANALYTICAL RESULTS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

**Sample: WELL E.**      **Lab ID: 40174279002**      Collected: 08/15/18 11:20      Received: 08/18/18 08:25      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/21/18 13:45	79-34-5	
Tetrachloroethene	29.2	ug/L	1.1	0.33	1		08/21/18 13:45	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/21/18 13:45	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/21/18 13:45	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/21/18 13:45	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/21/18 13:45	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/21/18 13:45	79-00-5	
Trichloroethene	77.7	ug/L	1.0	0.26	1		08/21/18 13:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/21/18 13:45	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/21/18 13:45	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/21/18 13:45	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/21/18 13:45	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/21/18 13:45	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		08/21/18 13:45	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		08/21/18 13:45	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	86	%	70-130		1		08/21/18 13:45	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		08/21/18 13:45	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/21/18 13:45	2037-26-5	

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40174279

QC Batch: 297655 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40174279001, 40174279002

METHOD BLANK: 1738619 Matrix: Water

Associated Lab Samples: 40174279001, 40174279002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/21/18 09:19	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/21/18 09:19	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/21/18 09:19	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/21/18 09:19	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/21/18 09:19	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/21/18 09:19	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/21/18 09:19	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	08/21/18 09:19	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/21/18 09:19	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/21/18 09:19	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/21/18 09:19	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/21/18 09:19	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/21/18 09:19	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/21/18 09:19	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/21/18 09:19	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/21/18 09:19	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/21/18 09:19	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/21/18 09:19	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/21/18 09:19	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/21/18 09:19	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/21/18 09:19	
2-Chlorotoluene	ug/L	<0.93	5.0	08/21/18 09:19	
4-Chlorotoluene	ug/L	<0.76	2.5	08/21/18 09:19	
Benzene	ug/L	<0.25	1.0	08/21/18 09:19	
Bromobenzene	ug/L	<0.24	1.0	08/21/18 09:19	
Bromochloromethane	ug/L	<0.36	5.0	08/21/18 09:19	
Bromodichloromethane	ug/L	<0.36	1.2	08/21/18 09:19	
Bromoform	ug/L	<4.0	13.2	08/21/18 09:19	
Bromomethane	ug/L	<0.97	5.0	08/21/18 09:19	
Carbon tetrachloride	ug/L	<0.17	1.0	08/21/18 09:19	
Chlorobenzene	ug/L	<0.71	2.4	08/21/18 09:19	
Chloroethane	ug/L	<1.3	5.0	08/21/18 09:19	
Chloroform	ug/L	<1.3	5.0	08/21/18 09:19	
Chloromethane	ug/L	<2.2	7.3	08/21/18 09:19	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/21/18 09:19	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/21/18 09:19	
Dibromochloromethane	ug/L	<2.6	8.7	08/21/18 09:19	
Dibromomethane	ug/L	<0.94	3.1	08/21/18 09:19	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/21/18 09:19	
Diisopropyl ether	ug/L	<1.9	6.3	08/21/18 09:19	
Ethylbenzene	ug/L	<0.22	1.0	08/21/18 09:19	

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.

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### QUALITY CONTROL DATA

Project: 1933B NORMINGTON

Pace Project No.: 40174279

METHOD BLANK: 1738619

Matrix: Water

Associated Lab Samples: 40174279001, 40174279002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	08/21/18 09:19	
Isopropylbenzene (Cumene)	ug/L	<0.39	2.7	08/21/18 09:19	
m&p-Xylene	ug/L	<0.47	2.0	08/21/18 09:19	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/21/18 09:19	
Methylene Chloride	ug/L	<0.58	5.0	08/21/18 09:19	
n-Butylbenzene	ug/L	<0.71	2.4	08/21/18 09:19	
n-Propylbenzene	ug/L	<0.81	5.0	08/21/18 09:19	
Naphthalene	ug/L	<1.2	5.0	08/21/18 09:19	
o-Xylene	ug/L	<0.26	1.0	08/21/18 09:19	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/21/18 09:19	
sec-Butylbenzene	ug/L	<0.85	5.0	08/21/18 09:19	
Styrene	ug/L	<0.47	1.6	08/21/18 09:19	
tert-Butylbenzene	ug/L	<0.30	1.0	08/21/18 09:19	
Tetrachloroethene	ug/L	<0.33	1.1	08/21/18 09:19	
Toluene	ug/L	<0.17	5.0	08/21/18 09:19	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	08/21/18 09:19	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/21/18 09:19	
Trichloroethene	ug/L	<0.26	1.0	08/21/18 09:19	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/21/18 09:19	
Vinyl chloride	ug/L	<0.17	1.0	08/21/18 09:19	
4-Bromofluorobenzene (S)	%	86	70-130	08/21/18 09:19	
Dibromofluoromethane (S)	%	130	70-130	08/21/18 09:19	
Toluene-d8 (S)	%	92	70-130	08/21/18 09:19	

LABORATORY CONTROL SAMPLE: 1738620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.6	113	70-133	
1,1,1,2-Tetrachloroethane	ug/L	20	22.6	113	67-130	
1,1,2-Trichloroethane	ug/L	20	22.6	113	70-130	
1,1-Dichloroethane	ug/L	20	23.3	117	70-134	
1,1-Dichloroethene	ug/L	20	22.2	111	75-132	
1,2,4-Trichlorobenzene	ug/L	20	17.3	86	68-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.4	97	60-126	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	19.9	100	70-130	
1,2-Dichloroethane	ug/L	20	20.7	104	73-134	
1,2-Dichloropropane	ug/L	20	24.8	124	79-128	
1,3-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	21.7	109	70-130	
Benzene	ug/L	20	22.2	111	69-137	
Bromodichloromethane	ug/L	20	23.3	117	70-130	
Bromoform	ug/L	20	22.7	113	64-133	
Bromomethane	ug/L	20	12.3	61	29-123	

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: 1933B NORMINGTON

Pace Project No.: 40174279

LABORATORY CONTROL SAMPLE: 1738620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	22.8	114	73-142	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	22.7	114	59-133	
Chloroform	ug/L	20	23.9	120	80-129	
Chloromethane	ug/L	20	15.0	75	27-125	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	70-134	
cis-1,3-Dichloropropene	ug/L	20	20.5	103	70-130	
Dibromochloromethane	ug/L	20	21.3	107	70-130	
Dichlorodifluoromethane	ug/L	20	7.9	39	12-127	
Ethylbenzene	ug/L	20	18.8	94	86-127	
Isopropylbenzene (Cumene)	ug/L	20	20.0	100	70-130	
m&p-Xylene	ug/L	40	42.0	105	70-131	
Methyl-tert-butyl ether	ug/L	20	21.0	105	65-136	
Methylene Chloride	ug/L	20	23.4	117	72-133	
o-Xylene	ug/L	20	19.9	99	70-130	
Styrene	ug/L	20	20.2	101	70-130	
Tetrachloroethene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	20.5	102	84-124	
trans-1,2-Dichloroethene	ug/L	20	23.1	115	70-133	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	67-130	
Trichloroethene	ug/L	20	22.2	111	70-130	
Trichlorofluoromethane	ug/L	20	20.3	102	69-147	
Vinyl chloride	ug/L	20	17.4	87	48-134	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			115	70-130	
Toluene-d8 (S)	%			95	70-130	

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## QUALIFIERS

Project: 1933B NORMINGTON

Pace Project No.: 40174279

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### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1933B NORMINGTON

Pace Project No.: 40174279

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
40174279001	WELL W.	EPA 8260	297655		
40174279002	WELL E.	EPA 8260	297655		

### REPORT OF LABORATORY ANALYSIS

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**Sample Condition Upon Receipt Form (SCUR)**

Project #: **WO# : 40174279**

Client Name: REI

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 1807421-1

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 - NA Type of Ice:  Wet  Blue  Dry  None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: \_\_\_\_\_ /Corr: ROI

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
Date: 8/18/18  
Initials: TL

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. no pg #, no collect date 8/18/18
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <u>8/18/18 TL</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. collect date 8/18/18
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>8/18/18 TL</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 8-20-18